

SWG 100 CEM

EMISSION MONOTORING ANALYZER



7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com





SWG 100 CEM_GEN2 Page: 2 of 6 Price list valid till: 12/31/2024

SWG100-CEMContinuous, stationary Emission Monitoring System



- Clean flue gas / stack gas / exhaust gas emission sites
- Natural gas, biogas & diesel gensets
- Methane / natural gas boilers
- ➡ Landfill gas / biogas CHP's
- Small gas turbines and power plants
- Many other industries
- Please consult MRU for heavy applications with higher sulfur and acid mist flue gas

Due to technical improvements or changes, picture of analyzer might be changed without notice!

The flue gas analysis system SWG 100 CEM (2nd generation) is the rugged, low-cost industrial gas analyzer for relatively clean applications for:

Instrument main features are

- ⇒ Single heat exchanger Peltier gas cooler with automatic condensate draining pump
- ⇒ Up to max 5 gas electrochemical sensors (ECS) measurement with O2 CO NO NO2 SO2
- ⇒ Up to 6 gas measurement with 3x ECS for O2 NO NO2 and 3-gas ndir bench CO CO2 SO2 (or CH4 or C3H8)
- True NOx and SO2 measurements requires heated gas sampling probe and heated gas sampling line
- ⇒ Up to 6 sampling points switching possible when using non-heated PTFE sampling line
- ⇒ Up to maximum 2 sampling point switching possible when using heated sampling line (100W / meter power demand)
- No dilution of sample gas is required, simultaneous measurement of all gas parameters
- Direct and continuous measurement, with pressure and temperature compensation
- Automatic zeroing using clean ambient air and separate calibration inlet port
- Internal sample flow monitoring and alarm of probe or internal filter clogging
- ⇒ Sampling from low suction -150mbar up to +50mbar pressure of flue gas
- ⇒ IP54 stainless steel AISI 304 cabinet 24" x 28" x 9" (600 x 700 x 210mm) (W x H x D), with monitored fan ventilation
- Maximal length of both 2x heated sampling lines is limited to 25 m (5,0KW power consumption)
- Heat exchanger Peltier gas cooler, with automatic condensate draining pump
- Condensate monitoring and alarm on display and gas sampling stop
- Efficient sample gas filtration using large PTFE sintered particulate filter
- Flow regulated sample gas pump with sample gas flow monitoring and alarm
- Auto-zero using clean ambient air from inlet port
- Cal. gas inlet port with solenoid valve and aluminum fine pressure regulator for manual gas calibration
- ⇒ Sample gas inlet ports using heated sampling lines must be selected separately
- Human machine interface with color TFT display, keyboard and standard RS485 interface (Modbus RTU)
- Intuitive software guided menu, with diagnosis software and real-time data transfer
- Power supply to analyzer with 230Vac / 47-63Hz / 120W add power for probe and heated sampling line)
- Clean indoor mounting place, preferably air-conditioned cabinet has monitored fan ventilation
- Outdoor mounting in clean, +5°C to 45°C ambient with mandatory sun & rain protection (user scope)



7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com

SWG 100 CEMGEN2



Total Price

SWG 100 CEM GEN2 Page: 6 Price list valid till: 12/31/2024 of

SWG 100 CEM stationary gas emissions analyzer with:

SWG 100 CEM with - IP54 aluminum cabinet with anti-corrosive red structural lacquer and monitored fan ventilation

- Peltier gas cooler and automatic condensate draining pump
- efficient sample gas filtration using PTFE sintered particulate filter
- regulated sample gas pump with sample gas flow monitoring and alarm
- filtration of acid gases to protect the internal sample gas flow sensor
- solenoid valve for auto-zero with clean ambient air
- solenoid valve for calibration gas supply, with fine pressure regulator at cal. gas inlet port
- gas inlet ports, either for heated or for non-heated sampling lines, must be selected from the optional items list
- human machine interface with color TFT display, keyboard and standard RS485 interface (Modbus RTU)
- all password protected, intuitive software guided menu, with diagnosis software and logbook
- power supply analyzer only 230Vac / 47-63Hz / 90W (110Vac power supply on request)
- total length of all heated sampling lines more than 60m, requires 3-phase power supply (L1; L2; L3; N; PE)
- clean indoor mounting place, preferably air conditioned
- outdoor mounting place in clean, +5°C to 45°C ambient, with mandatory sun & rain protection (user scope)





Discount

MEASURING MODULES						QTY	Part No.	Unit price	Discount	Total Price
Sensor OPTION - O2	long-life electrochemical cell	0 -	25	%	SELECT ONE	1	65419	\$933.00	0%	\$933.00
Sensor OPTION - O2	paramagnetical cell	0 -	25	%	SELECT ONE	1	11744-A	\$10,301.00	0%	\$10,301.00
Sensor OPTION - CO	(*2)	0 -	4,000	ppm	overload 10,000 ppm (*1)	1	65990	\$1,437.00	0%	\$1,437.00
Sensor OPTION - CO		0 -	4,000	ppm	overload 20,000 ppm (*1)	1	65968	\$1,065.00	0%	\$1,065.00
Sensor OPTION - NO		0 -	1,000	ppm	overload 5,000 ppm (*1)	1	65989	\$904.00	0%	\$904.00
Sensor OPTION - NO2	(*3)	0 -	200	ppm	overload 1,000 ppm (*1)	1	65974	\$1,051.00	0%	\$1,051.00
Sensor OPTION - SO2	(*3)	0 -	2,000	ppm	overload 5,000 ppm (*1)	1	65991	\$1,055.00	0%	\$1,055.00

(*1) NOTE: is maximum overload range, suitable only for short measuring time (*2) NOTE: including CO sensor cutoff valve and air purging pump for sensor protection

NOTE: requires heated sampling line (*3)

INFRARED MODULES (SINGLE GAS NDIR)						Part No.	Unit price	Discount	Total Price
CO ₂ analysis ND	OIR bench	0-40%			1	65684	\$1,932.00	0%	\$1,932.00
INFRARED M	ODULES (TRIPLE GAS NDIR)	300mm			QTY	Part No.	Unit price	Discount	Total Price
NDIR Module	CO / CO2 / CxHy as CH4 *1	010,000 / 100,000 ppm	0 -40.0%	03,000 / 40,000ppn	1	14679	\$4,842.00	0%	\$4,842.00
NDIR Module	CO / CO2 / CxHy as C3H8 *1	03,000 / 30,000ppm	0 -40.0%	01,000 / 20,000ppn	1	14680	\$6,331.00	0%	\$6,331.00
NDIR Module	CO / CO2 / CxHy as CH4 *1	01,000 / 100,000 ppm	0 -40.0%	01,000 / 40,000ppn	1	14681	\$6,331.00	0%	\$6,331.00
NDIR Module	CO / CO2 / SO2	010,000 / 100,000 ppm	0 -40.0%	01,000 / 10,000ppn	1	14682	\$6,331.00	0%	\$6,331.00

^{*1 -} non selective

NOTE: (*) customized measuring range between min range to max range / not all gas measurements from above are simultaneous possible, ask MRU for support

NO2 and SO2 measurement requires use of heated sampling line

DATA TRANSFER	QTY	Part No.	Unit price	Discount	Total Price
I/O Module with 4channel 4 - 20 mA analog output and 2 alarm relays (fail - safe NO contacts)	1	65430-A	\$569.00	0%	\$569.00
Incl. remote sample point switching control via 4x contacts and 4 channel analog input 4 - 20 mA					
requiered for analog data transfer, add also #65179-B for maximum 16x analog outputs 4-20mA					
NOTE: recommended for the first sampling point					
I/O Module with 4chanel 4-20mA analog output and 2 alarm relays (fail-safe NO contacts)	1	65179-В	\$424.00	0%	\$424.00
NOTE: 2 x recommended for each additional sampling point		•	•	•	•
(at least 8 channels per sampling point, max. 16x analog outputs)					
RS485 to Profi - Bus converter - converter shall be mounted in safe area (DCS room) over user scope 2(3)-wire cable	1	66029-A	\$1,024.00	0%	\$1,024.00
RS485 to Ethernet converter - converter shall be mounted in safe area (DCS room) - over user scope 2(3)-wire cable	1	66030-A	\$711.00	0%	\$711.00
RS485 to Profi - Net converter - converter shall be mounted in safe area (DCS room) - over user scope 2(3)-wire cable	1	14122	\$2,281.00	0%	\$2,281.00
RS485 to USB converter	1	62543	\$294.00	0%	\$294.00
MRU4win - "full" version software, for real time data acquisition and handling on PC with Windows10	1	10539	\$287.00	0%	\$287.00



7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com

SWG 100 CEM_{GEN2}



1

OPTIONS & ACCESSORIES Single sample gas inlet port, incl. MCM control unit for temperature regulation of 1 heated line, in combination with the probes model LD / HD / HD-GW 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model LD / HD / HD-GW 1 Sample gas inlet port for 1 heated sampling line/point for HPI-Probe incl. MCM control unit for temperature regulation 2 sample gas inlet port for 1 heated sampling line/point for HPI-Probe incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI Unheated sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Calibration gas between calibration points (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Part No. 12663-1H 12663-2H 12663-2HPI 12663-2HPI 12604 12552-3-A 12552-4-A 13479A 14178 13479D 65771-A 12706	Unit price \$1,392.00 \$3,223.00 \$1,618.00 \$3,440.00 \$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00 \$1,074.00 \$188.00	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$1,392.0 \$3,223.0 \$1,618.0 \$3,440.0 \$532.0 \$1,102.0 \$1,636.0 \$1,100.0 \$728.0
Single sample gas inlet port, incl. MCM control unit for temperature regulation of 1 heated line, in combination with the probes model LD / HD / HD-GW 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model LD / HD / HD-GW 1 Sample gas inlet port for 1 heated sampling line/point for HPI-Probe incl. MCM control unit for temperature regulation 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI unheated sample gas inlet port incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas intered without solenoid valve) Calibration gas vouted throug hand-valve and calibration gas outlets to the probes, Calibration gas vouted throug hand-valve and calibration gas outlets to the probes, Calibration gas vouted through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F Z30VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: connect flow rate monitor	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12663-1H 12663-2H 12663-1HPI 12663-2HPI 12604 12552-3-A 12552-4-A 13479A 14178 13479D	\$1,392.00 \$3,223.00 \$1,618.00 \$3,440.00 \$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0% 0% 0% 0% 0%	\$1,392.0 \$3,223.0 \$1,618.0 \$3,440.0 \$532.0 \$1,102.0 \$1,636.0 \$1,100.0 \$728.0 \$1,074.0
In combination with the probes model LD / HD / HD-GW 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, In combination with the probes model LD / HD / HD-GW 1 Sample gas inlet port for 1 heated sampling line/point for HPI-Probe Incl. MCM control unit for temperature regulation 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, In combination with the probes model HPI Unheated sample gas inlet port, Incl. MCM control unit for temperature regulation of 2 heated lines, In combination with the probes model HPI Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet throug hand-valve and calibration gas outlets to the probes, Calibration gas routet throug hand-valve and calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ??????*X for a XXM length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type there	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12663-2H 12663-1HPI 12663-2HPI 12604 12552-3-A 12552-4-A 13479A 14178 13479D	\$3,223.00 \$1,618.00 \$3,440.00 \$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0% 0% 0% 0%	\$3,223.0 \$1,618.0 \$3,440.0 \$532.0 \$1,102.0 \$1,636.0 \$1,100.0 \$728.0 \$616.0
2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, 11 combination with the probes model LD / HD / HD-GW 12 sample gas inlet port for 1 heated sampling line/point for HPI-Probe 13 cample gas inlet port for 1 heated sampling line/point for HPI-Probe 14 cample gas inlet port, incl. MCM control unit for temperature regulation 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, 11 combination with the probes model HPI 12 Inheated sample gas inlet port 13 vot suitable for measurements with NO2 and SO2 measurements. 14 vot of 2 gas cylinders / 200500mbar gas cylinders NOT included 15 vot suitable for measurements with NO2 and SO2 measurements. 15 vot suitable for measurements with NO2 and SO2 measurements. 16 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 16 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 16 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 17 vot suitable for 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders / 200500mbar gas cylinders NOT included 18 vot of 4 gas cylinders NOT included 19 vot of 4 gas cylinders NOT included 19 vot of 4 gas cylinders NOT included 19 vot of 4 gas cylinders NOT included 10 vot of 4 gas cylinders NOT	1 1 1 1 1 1 1	12663-1HPI 12663-2HPI 12604 12552-3-A 12552-4-A 13479A 14178 13479D	\$1,618.00 \$3,440.00 \$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0% 0% 0%	\$1,618.4 \$3,440.4 \$532.4 \$1,102.4 \$1,636.4 \$1,100.4 \$728.4 \$616.4
In combination with the probes model LD / HD / HD-GW I Sample gas inlet port for 1 heated sampling line/point for HPI-Probe Incl. MCM control unit for temperature regulation 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal	1 1 1 1 1 1 1	12663-1HPI 12663-2HPI 12604 12552-3-A 12552-4-A 13479A 14178 13479D	\$1,618.00 \$3,440.00 \$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0% 0% 0%	\$1,618. \$3,440. \$532. \$1,102. \$1,636. \$1,100. \$728.
As sample gas inlet port for 1 heated sampling line/point for HPI-Probe incl. MCM control unit for temperature regulation 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routed through hand-valve and calibration gas outlets to the probes, Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the internal dual PTFE line in heated sample line" to the probe, Calibration gas via the internal dual PTFE line in heated sample line to the probe, Calibration gas via the internal dual PTFE line in heated sample line to the probe, Calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14"F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant,	1 1 1 1 1 1	12663-2HPI 12604 12552-3-A 12552-4-A 13479A 14178 13479D 65771-A 12706	\$3,440.00 \$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0% 0%	\$3,440. \$532. \$1,102. \$1,636. \$1,100. \$728. \$616.
incl. MCM control unit for temperature regulation 2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through and-valve and calibration gas outlets to the probes, Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XSZ for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Wa	1 1 1 1 1 1	12663-2HPI 12604 12552-3-A 12552-4-A 13479A 14178 13479D 65771-A 12706	\$3,440.00 \$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0% 0%	\$3,440.0 \$532.0 \$1,102.0 \$1,636.0 \$1,100.0 \$728.0 \$616.0
2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through and-valve and calibration gas outlets to the probes, Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXM length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 9.984" (15 x 500mm) Inconel steel	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12604 12552-3-A 12552-4-A 13479A 14178 13479D 65771-A 12706	\$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0%	\$3,440.0 \$532.0 \$1,102.0 \$1,636.0 \$1,100.0 \$728.0 \$616.0
2 sample gas inlet port, incl. MCM control unit for temperature regulation of 2 heated lines, in combination with the probes model HPI Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through and-valve and calibration gas outlets to the probes, Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXM length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Ru	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12604 12552-3-A 12552-4-A 13479A 14178 13479D 65771-A 12706	\$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0% 0%	\$532.0 \$1,102.0 \$1,636.0 \$1,100.0 \$728.0 \$616.0
Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through and-valve and calibration gas outlets to the probes, Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel	1 1 1 1	12552-3-A 12552-4-A 13479A 14178 13479D 65771-A 12706	\$532.00 \$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0%	\$532. \$1,102. \$1,636. \$1,100. \$728. \$616.
Unheated sample gas inlet port Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through and-valve and calibration gas outlets to the probes, Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel	1 1 1 1 1 1	12552-3-A 12552-4-A 13479A 14178 13479D 65771-A 12706	\$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0% 0%	\$1,102. \$1,636. \$1,100. \$728. \$616.
Not suitable for measurements with NO2 and SO2 measurements. AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through hand-valve and calibration gas outlets to the probes, Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1 1 1 1 1	12552-4-A 13479A 14178 13479D 65771-A 12706	\$1,102.00 \$1,636.00 \$1,100.00 \$728.00 \$616.00	0% 0% 0%	\$1,102. \$1,636. \$1,100. \$728. \$616.
AUTO-CAL for 3 gas cylinders / 200500mbar gas cylinders NOT included AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through and-valve and calibration gas outlets to the probes, Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Special connecting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1 1 1 1 1	12552-4-A 13479A 14178 13479D 65771-A 12706	\$1,636.00 \$1,100.00 \$728.00 \$616.00 \$1,074.00	0% 0% 0%	\$1,636. \$1,100. \$728. \$616.
AUTO-CAL for 4 gas cylinders / 200500mbar gas cylinders NOT included Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet throug hand-valve and calibration gas outlets to the probes, Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature protecting 500W heater, temperature supply wires L, N, PE NOTE: mounting set for connecting 500W heater, and 500W heater, temperature	1 1 1 1 1	12552-4-A 13479A 14178 13479D 65771-A 12706	\$1,636.00 \$1,100.00 \$728.00 \$616.00 \$1,074.00	0% 0% 0%	\$1,636. \$1,100. \$728. \$616.
Calibration gas routed internally, including needle valve/flow meter for setting the calibration gas flow rate The calibration gas is introduced directly via a T-connectot in front of the gas cooler (for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet throug hand-valve and calibration gas outlets to the probes, Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature regulated freeze protection from 14°F Cabinet 300W heater, temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Cabinet 300W heater, temperature probe	1 1 1 1	13479A 14178 13479D 65771-A 12706	\$1,100.00 \$728.00 \$616.00 \$1,074.00	0%	\$1,100. \$728. \$616.
The calibration gas is introduced directly via a T-connectot in front of the gas cooler for SWGs with one sample gas inlet without solenoid valve) Calibration gas routet through and-valve and calibration gas outlets to the probes, Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F CADM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 Price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1 1 1 1	13479D 65771-A 12706	\$728.00 \$616.00 \$1,074.00	0%	\$728. \$616. \$1,074.
Calibration gas routet throug hand-valve and calibration gas outlets to the probes, Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature switch and protect SWG from hard and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water	1 1 1	13479D 65771-A 12706	\$616.00	0%	\$616. \$1,074.
Calibration gas routet throug hand-valve and calibration gas outlets to the probes, Calibration gas via the "external calibration line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature regulated, freeze protection from 14°F Cabinet 300W heater, temperature probe (500 Auman and 500 Auman and	1 1 1	13479D 65771-A 12706	\$616.00	0%	\$616. \$1,074.
Calibration gas via the "external calibraion line" to the probe, incl hand valve for switching the calibration gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1 1 1	13479D 65771-A 12706	\$616.00	0%	\$616. \$1,074.
gas between calibration points (the installation of the calibration gas lines is separately from the heated sampling lines). Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1 1	65771-A 12706	\$1,074.00	0%	\$1,074.
Calibration gas routet through "internal dual PTFE line in heated sample line" to the probe, Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1 1	65771-A 12706	\$1,074.00	0%	\$1,074.
Calibration gas via the "internal dual PTFE line in heated sample line" to the probe, incl hand valve for switching the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F 230VAC DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1 1	65771-A 12706	\$1,074.00	0%	\$1,074.
the calibration gas between calibration points (for SWGs with two Probes and heating hoses with dual PTFE line) Cabinet 300W heater, temperature regulated, freeze protection from 14°F DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C)	1	12706			
Cabinet 300W heater, temperature regulated, freeze protection from 14°F DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	12706			
DM401 dust monitor and DF252 flow rate monitor mounting set NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	12706			
NOTE: mounting set for connecting DM401 and DF252 to SWG100CEM flue gas analyzer Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)			\$188.00	0%	\$188.
Special connecting cable for 4x analog output 4-20mA, and incl. power supply wires L, N, PE NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	12595			
NOTE: connect flow rate monitor DF252 to main analyzer SWGx00 price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	12595	ć0.00	00/	Ć0
Price per meter length, order ?????-XX for a XXm length of cable Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)			\$9.90	0%	\$9.
Aluminum Frame awning to protect SWG from harsh and direct weather elements such as sun, rain, hail, and snow. H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)					
H 12 in, W 48 in, D 42 in, Assembly Required, Hardware Included, Rust Resistant, Water Resistant FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	F0070	¢1.044.00	00/	¢1.044
FLUE GAS TEMPERATURE Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	59979	\$1,044.00	0%	\$1,044.
Flue gas temperature probe, K-type thermocouple, with weld-on stack 1/2" fitting Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)					
Temperature probe Ø 0.59" x 9.84" (15 x 250mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	QTY	Part No.	Unit price	Discount	Total Pri
Temperature probe Ø 0.59" x 19.68" (15 x 500mm) Inconel steel 2012 °F (1000°C) Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)					
Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	12889	\$1,013.00	0%	\$1,013.0
Temperature probe Ø 0.59" x 39.35" (15 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	12889A	\$1,121.00	0%	\$1,121.0
	1	12889C	\$1,169.00	0%	\$1,169.0
	I	ı	1		
Flue gas temperature probe, K-type thermocouple, for fixing inside probe LD flange		_			
Temperature probe Ø 0.24" x 9.84" (6 x 250mm) Inconel steel 2012 °F (1000°C)	1	12881	\$610.00	0%	\$610.
Temperature probe Ø 0.24" x 19.68" (6 x 500mm) Inconel steel 2012 °F (1000°C)	1	12881A	\$763.00	0%	\$763.0
Temperature probe Ø 0.24" x 39.35" (6 x 1,000mm) Inconel steel 2012 °F (1000°C)	1	12881C	\$827.00	0%	\$827.
NOTE: including probe fixation fitting, other lengths on request					
K-type thermocouple compensating cable, for flue gas thermocouple probes	1	11269-01	\$14.30	0%	ċ14
NOTE: price per meter length, order 11269-xx for a XXm length of cable	-	11209-01	\$14.50	U%	\$14.
price per meter length, order 11203-xx for a xxiii length of cable					
LOW DUST GAS SAMPLING PROBE WITH TUBE AND FILTER	QTY	Part No.	Unit price	Discount	Total Pri
Gas sampling probe model LD, for low dust with on tip sintered metal filter					
Probe tube incl. 7" sintered filter 9.84" (250mm) stainless steel max 932°F (500°	C) 1	62592A	\$1,862.00	0%	\$1,862.
Probe tube incl. 7" sintered filter 19.68" (500mm) stainless steel max 932°F (500°		62592C	\$1,802.00	0%	\$1,802.
Probe tube incl. 7" sintered filter 39.35" (1000mm) stainless steel max 932°F (500°		62592E	\$1,816.00	0%	\$1,816.0
NOTE: other tube lengths on request, probe is usable only for very clean flue gases (e.g. natural gas boiler)	·	1	. , , , , , , , , , , , , , , , , , , ,		, ,,==0.
HEATED SAMPLING LINE - LD			Unit price	Discount	Total Pri
Heated gas sampling line for probe LD, internal PTFE 4/6mm hose, with 3m length	QTY	Part No.			4 -
230Vac heater power supply and 100W/meter power consumption	QTY 1	Part No. 12598-A-03	\$2,029.00	0%	\$2,029.



\$281.00

ХX

\$281.00

Prices over 3 m length on request.

order 12598-XX for a XXm length sampling line (3m up to max 50m length) for heated line length higher than 25m, add option power SSR #60297

7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com

SWG 100 CEMGEN2



1

SWG 100 CEM_GEN2 Page: 5 of 6		Price list	valid till:	12/31/20	24
GAS SAMPLING PROBES HD-GW (HIGH DUST-GLASS WOOL)	QTY	Part No.	Unit price	Discount	Total Price
Gas sampling probe model HD-GW, for flue gas with soot, oily, acid mist 230Vac heater power supply and 600W	٠	T die Hoi	ome price	Discount	TotalTitee
power consumption with quartz wool filter, 320°F heated by analyzer temperature regulator	1	61558F	\$3,479.00	0%	\$3,479.00
GAS SAMPLING PROBES HD-FLYING ASH	QTY	Part No.	Unit price	Discount	Total Price
Gas sampling probe model HD, for flue gas with flying ash dust 230Vac heater power supply and 600W	۷	T die Hot	ome price	Discount	TotalTrice
power consumption with back-purge able ceramic filter, 320°F heated by analyzer temperature regulator	1	61557F	\$4,581.00	0%	\$4,581.00
Gas sampling tube for insertion in the stack and mounting on probe HD or HD-GW	QTY	Part No.	Unit price	Discount	Total Price
Probe tube Ø 0.87" x 9.84" (22 x 250mm) Stainless steel 1202 °F (650°C)	1	60458	\$352.00	0%	\$352.00
Probe tube Ø 0.87" x 39.35" (22 x 1000mm) Stainless steel 1202 °F (650°C)	1	59521	\$420.00	0%	\$420.00
Probe tube Ø 0.87" x 19.68" (22 x 500mm) Inconel steel 2012 °F (1100°C)	1	59557B	\$381.00	0%	\$381.00
Probe tube Ø 0.87" x 39.35" (22 x 1000mm) Inconel steel 2012 °F (1100 °C)	1	59557	\$476.00	0%	\$476.00
Probe tube Ø 1.06" x 39.35" (27 x 1000mm) Kanthal steel 2372 °F (1300°C)	1	56987	\$2,753.00	0%	\$2,753.00
Probe tube Ø 1.06" x 59.03" (27 x 1500mm) Kanthal steel 2372 °F (1300°C)	1	56987B	\$2,832.00	0%	\$2,832.00
Probe tube Ø 0.94" x 39.35" (24 x 1000mm) Ceramic tube 3092 °F (1700°C)	1	59555	\$2,557.00	0%	\$2,557.00
Probe tube Ø 0.94" x 59.03" (24 x 1500mm) Ceramic tube 3092 °F (1700°C)	1	59555B	\$3,067.00	0%	\$3,067.00
other tube lengths on request					
HEATED SAMPLING LINE - HIGH DUST and HD-GW	QTY	Part No.	Unit price	Discount	Total Price
Heated gas sampling line for probe HD or HD-GW, internal PTFE 4/6mm hose, with 3m length	1	12601-A-03	\$2,232.00	0%	\$2,232.00
230Vac heater power supply and 100W/meter power consumption					
NOTE: add \$ per each meter length,	1	XX	\$281.00	0%	\$281.00
order 12601-XX for a XXm length sampling line (3m up to max 50m length)					
for heated line length higher than 25m, add option power SSR #60297					
HEATED SAMPLING LINE - HIGH DUST and HD-GW	QTY	Part No.	Unit price	Discount	Total Price
Heated gas sampling line for probe HD or HD-GW, DUAL internal PTFE 4/6mm hose, with 3m length	1	12688-03	\$3,611.00	0%	\$3,611.00
230Vac heater power supply and 100W/meter power consumption			4004.00	80/	4004.00
NOTE: add \$ per each meter length, order 12688-XX for a XXm length sampling line (3m up to max 80m length)	1	XX	\$281.00	0%	\$281.00
or heated line length higher than 35m, add option power SSR #60297					
SAMPLING LINE - HIGH DUST and HD-GW	QTY	Part No.	Unit price	Discount	Total Price
Power solid state relay for heated sampling lines with length above 25m	1	60297	\$463.00	0%	\$463.00
GAS SAMPLING PROBE HPI	QTY	Part No.	Unit price	Discount	Total Price
Gas sampling probe model HPI, using small probe head for low diameter flue gas stack	1	12456	\$1,494.00	0%	\$1,494.00
with easy replaceable cartridge filter, using borosilicate quartz wool for clean combustions,					
with integrated 24Vdc heater and temperature regulation by analyzers, probe head prepared for intake of exchangeable probe tube (please select one from below)					
and integrated gas temperature measurement using K-type (NiCrNi) thermocouple					
Filter for HPI Probe	QTY	Part No.	Unit price	Discount	Total Price
Easy replaceable cartridge filter, using GW filter (glass-wool) element for dirty combustions	1	12667	\$381.00	0%	\$381.00
Gas sampling tube for gas sampling probe HPI	QTY	Part No.	Unit price	Discount	Total Price
Exchangeable probe tube Ø 0.47" x 11.81" (12 x 300mm) Stainless steel 1472 °F (800°C)	1	11620	\$420.00	0%	\$420.00
Exchangeable probe tube Ø 0.47" x 19.68" (12 x 500mm) Inconel steel 2012 °F (1100°C)	1	61827	\$1,592.00	0%	\$1,592.00
Probe tube holder fitting 1/2"- 0.47" (12mm), for firm and tight probe fixation on the stack or gas pipe Heat deflector shield Ø5.90" for Ø0.47" (150mm for Ø12mm) tube, for stack with high temperature radiation	1	65670	\$81.40	0%	\$81.40
near denector smeld אייס ווו אייס וווי אייס וווייס ווייס וווייס ווייס וווייס ווייס ווייס וווייס ווייס וויס ווייס ווייס וויס ווייס וויס ווייס וויס וויס וויס וויס וויס וויס וויס ו	1	65481-12	\$152.00	0%	\$152.00
HEATED GAS SAMPLING LINE HPI	QTY	Part No.	Unit price	Discount	Total Price
Heated gas sampling line (PTFE) for probe HPI, with integrated NiCrNi thermocouple wires,	1	12602-A-03	\$2,435.00	0%	\$2,435.00
230Vac heater power supply and 100W/meter power consumption, 3m length	4		¢204.00	00/	ć204.00
NOTE: add \$ per each additional meter length, order 12602-XX for total XXm length sampling line (3m up to max 50m length)	1	XX	\$281.00	0%	\$281.00
for heated line length longer than 25m, please add power SSR #60297					
UN-HEATED SAMPLING	QTY	Part No.	Unit price	Discount	Total Price
Unheated Teflon (PTFE) sampling line DN 4 / 6 mm (1 m length)	1	50624	\$11.00	0%	\$11.00
NOTE: price per meter length, order 50624-xx for a XXm length sampling line					



7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com

SWG 100 CEMGEN2



SWG 100 CEM_GEN2	Page:	6	of	6	Price list valid till: 12/31/2024

CONSUMABLES	QTY	Part No.	Unit price	Discount	Total Price
Analyzer consumable parts set for one year operation	1	13430	\$689.00	0%	\$689.00
Consumable set for probe LD	1	60912-1	\$683.00	0%	\$683.00
Consumable set for probe HD-GW	1	60912-5	\$916.00	0%	\$916.00
Consumable set for probe HD	1	60912-3	\$470.00	0%	\$470.00
Consumable set for probe HPI	1	12680	\$325.00	0%	\$325.00
Analyzer main filter element	1	12685-A	\$168.00	0%	\$168.00







HPI Probe heated probe head with filter



Flue Gas Temperature Probe



Low dust sampling probe with filter



HD - High Dust Probe with Ceramic Filter and Back-Purge



HD - High Dust Probe with Glass Wool Filter



Heated sampling line







7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com





SALES TERMS & CONDITIONS

A. Acceptance/Agreement

All orders are subject to acceptance by MRU Instruments, Inc. Additional or different terms or any attempt by the Buyer to vary, in any degree, any of the terms of this sales agreement form shall be deemed material and are objected to or rejected, but this sales agreement form shall not operate as a rejection of the Buyer's offer unless it contains variances in the terms of the description, quantity, price or delivery schedule of the goods.

B. Payment Terms

MRU Instrumentsqpayment terms are net 30 days unless special written arrangements have been made. MRU Instruments, Inc. may, at any time, suspend performance of any order or require payment in cash, security or other adequate assurance satisfactory to MRU Instruments, Inc. when, in MRU Instrumentsoppinion, the financial condition of Buyer or other grounds for insecurity warrant such action. MRU Instruments, Inc. reserves the right to assess late charges on accounts due past 30 days at the rate of 18% per annum. All goods are shipped Ex Works and are the property of the Buyer upon shipment.

C. Cancellation/Termination

Upon written notice of cancellation or termination for the Buyer's convenience of standard catalog items, for standard product only, the Buyer is subject to a minimum 15% charge on the remaining balance and a charge reflecting a reversion to the quantity pricing of items actually delivered. In the event that the goods are special, non-standard or custom the Buyer may terminate this order in whole or in part for its convenience upon written notice to MRU Instruments, Inc. in which event MRU Instruments, Inc. shall be entitled to termination charges consisting of a percentage of the order price reflecting the percentage of the work performed prior to termination plus actual direct costs resulting from termination.

D. Remedies in the Event of Cancellation or Default

In the event the Buyer cancels this order, or becomes overdue on its account payable to MRU Instruments, Inc. by failing to pay for this order when due in accordance with the terms hereof, in addition to the charges assessed to the Buyer pursuant to Paragraphs B and C of this Agreement, the buyer shall be required to pay all costs of collection, including, whether suit be brought or not, attorney fees, court costs, collection expenses and other expenses which MRU Instruments, Inc. may incur or pay in the prosecution of defense of its rights hereunder whether in judicial proceedings at law or in equity, including bankruptcy court and appellate proceedings, or whether out of court. In addition, MRU Instruments, Inc. shall retain the right to terminate this Agreement and Buyer's right to use the Software (as term is defined below) upon any material breach of this Agreement by Buyer. Buyer agrees to return to MRU Instruments, Inc. or to destroy all copies of the Software upon termination of this Agreement.

E. Delivery

The promised delivery date is the best estimate possible, based upon current and anticipated manufacturing capabilities, of when the product will be shipped. MRU Instruments, Inc. assumes no liability for loss, damages or consequential damages due to delay.

In any event, MRU Instruments, Inc. shall not be in default for any failure to deliver Products to Buyer by the promised delivery date. In the event that MRU Instruments, Inc. so defaults, Buyer's sole remedy for such default shall be cancellation of the applicable order. MRU Instruments, Inc. shall have no other liability to Buyer as a consequence of any such default.

F. Force Majeure

Fulfillment of this order is contingent upon the availability of materials. MRU Instruments, Inc. shall not be liable for any delay in delivery or for non-delivery in whole or in part caused by the occurrence of any contingency beyond the control of either MRU Instruments, Inc. or suppliers to MRU Instruments, Inc. including but not limited to delay in transportation, labor disruption, earthquake, fire, acts of God, or any other act outside of MRU Instruments, Inc.'s reasonable control.

G. Warranty

MRU Instruments, Inc. expressly warrants that the materials covered by this sale will conform to the specifications, drawings or other descriptions specified by the Buyer or if none are so specified, to MRU Instruments standard specifications for such material. The materials will be new and unless specified to the contrary on the order acknowledgment or invoice, will be free of all liens and encumbrances.

MRU Instruments, Inc. is in compliance in all material respects with the terms and conditions of all material permits, licenses and authorizations which are required under federal, state and local laws applicable to MRU Instruments, Inc. and relating to pollution or protection of the environment, except where the failure to obtain such authorizations could not be reasonably expected to have a material adverse effect on the business of MRU Instruments, Inc. or its customers. MRU Instruments, Inc. is not aware of any conditions, circumstances, activities, practices, incidents, or actions which could reasonably be expected to form the basis of any claim, action, suit, proceeding, hearing, or investigation of, by, against or relating to MRU Instruments, Inc., based on or related to the manufacture, processing, distribution, use, treatment, storage, disposal, transport, or handling, or the emission, discharge, release or threatened release into the environment, of any pollutant, contaminant, or hazardous or toxic substance, material or waste, or relating to the safety of employees, workers or other persons, other than such conditions, circumstances, activities, practices, incidents, or actions that are beyond reasonable knowledge of and control of MRU Instruments, Inc..

THIS WARRANTY IS THE ONLY WARRANTY MADE BY MRU INSTRUMENTS, INC. WITH RESPECT TO THE GOODS SOLD UNDER THIS AGREEMENT. THERE IS NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. MRU INSTRUMENTS, INC. FURTHER DISCLAIMS ANY WARRANTY, EXPRESS OR IMPLIED, LIABILITY OR SUPPORT OBLIGATION FOR ALTERED, DAMAGED OR MODIFIED SOFTWARE OR ANY PORTION OF THE SOFTWARE INCORPORATED WITH OR INTO THIRD-PARTY PRODUCTS OR PRODUCT PROBLEMS CAUSED BY CUSTOMER'S NEGLIGENCE, ABUSE OR MISAPPLICATION OR USE OF THE PRODUCT OTHER THAN AS SPECIFIED BY MRU INSTRUMENTS, INC..

MRU Instruments place is expressly limited to the repair or replacement (at MRU Instruments gloods or, at MRU Instruments gloo

H. Claims/Notice of Defects

Failure of the Buyer to object in writing to any merchandise shipped to it by MRU Instruments, Inc. within 30 days after receipt thereof will constitute complete acceptance by Buyer of such merchandise. Rejected material must be returned to MRU Instruments, Inc. within 45 days after receipt and with prior authorization from MRU Instruments, Inc. MRU Instruments, Inc. may (at its option) recondition or replace the rejected material to meet Buyer's specifications within a reasonable time period after receipt. Claims for shipping damage must be made with the carrier.

All products must be returned in the same packing conditions in which it left MRU Instruments, Inc.' manufacturing location(s) (anti-static rails and boxes, adequately protected, etc.). Buyer must pay return shipping.

I. Confidential Information

All drawings, diagrams, specifications and other materials furnished by MRU Instruments, Inc. and identified as confidential, or information which the Buyer knows or has reason to know is confidential, proprietary or trade secret information of MRU Instruments, Inc., relating to the use and service of articles furnished hereunder and the information therein, are proprietary to MRU Instruments, Inc.. Buyer may not reproduce or distribute such materials except to buyer's employees who may use the articles as part of their duties.

Customer agrees that it will take all reasonable measures to maintain the confidentiality of all confidential information in its possession or control, which will in no event be less than the measures it uses to maintain the confidentialit of its own information of equal importance. Accordingly, MRU Instruments, Inc. will be entitled to preliminary and permanent injunctive relief and other equitable relief for any breach of this Section I. Burst fuel to the present expense of institute and present expense.

Buyer further acknowledges and agrees that the sale of products to Buyer does not convey any license express or implied, and Buyer shall not, manufacture, modify, reverse engineer, duplicate, otherwise copy or reproduce any o the products or any part thereof. MRU Instruments, Inc. will treat drawings, specifications or data furnished by Buyer as confidential, when identified as such, in connection with this purchase.

J. General Provisions

Any cause of action arising from this agreement, or breach of it, must be commenced within one year after the cause of action occurs. MRU Instruments, Inc. reserves the right to correct any stenographical or clerical errors in any of the writings issued by it. The terms and conditions of sale and any description on the face of MRU Instruments, Inc. to Buyer unless amended in writing between Buyer and MRU Instruments, Inc. Buyer may not assign any rights to, or delegate any performance owed under the agreement without the written consent of MRU Instruments, Inc.

This Agreement will be governed by and construed in accordance with the laws of the State of Texas. Any suit hereunder will be brought solely in the federal or state courts of Harris County, Texas, and Buyer hereby submits to the personal jurisdiction thereof. This agreement, as amended by any posted notices, constitutes the entire terms and conditions on products offered for sale by MRU Instruments, Inc.

MRU Instruments, Inc. may amend this Agreement at any time by posting the amended terms on its web site. Except as stated below, all amended terms shall automatically be effective after they are posted on the web site. This Agreement may not be otherwise amended except in a writing signed by Buyer and MRU Instruments, Inc.

This agreement was last revised on January 30, 2007.

