



MFplus

MULTIFUNCTIONAL MEASURING DEVICE



Gas flow measurement	
Line 3	Traverse pt. 5
	0.500
Distance [m]	15.00
v-live [m/s]	13.74
v-mean trav. pt. [m/s]	12.83
v-mean stack [m/s]	75000.0
Q-flow rate [l/s]	1:25

PRICE LIST 2024
VALID 04/01 - 12/31/2024

Multifunctional Measuring Device

MFplus 16911

Measuring instrument dedicated to travers points volumetric flow rate measurement in industrial stacks,
flow rate measurement in industrial stacks compliant to European Standard EN 16911-1, to ISO 10780 and to USEPA 40CFR part 60, method 2

BASIC CONFIGURATION AND FUNCTION

Measurement of:	100mbar high accuracy pressure / differential pressure 1000°C temperature / differential temperature, K-type Barometric pressure
Measuring units:	User free selectable, all metric and imperial units
Calculations:	Instant and average data, dry and wet gas data, etc.
Data memory:	Site and data- storage (up to 16.000 measurements)
Storage function:	Via built-in SD-card, in CSV format
Display:	Brilliant 3,5" TFT color display
Batteries:	Li-Ion Battery for 30 hrs. operation time
Dimensions of the housing:	90 x 205 x 38 mm (w/h/d)
Weight:	Lightweight - approx. 470 g
Housing:	Robust housing with dirt resistant keypad
Connectors:	Robust metal connectors
Interfaces:	Mini-USB (Data transfer and charging)
Power supply:	Universal wall plug charger 100...240Vac / 5Vdc / 1A
Accessories:	Wall plug charger, short K-type plug, 8GB SD-card, set of connecting silicon hoses with small ABS transport case with foam insert (for instrument, battery charger and hose set only)



MFplus "166911	QTY	Part No.	Unit price	Discount	Total Price
Base unit as described above, with dedicated software for gas flow velocity measurement according to EN16911 by means of Pitot tube, for traverse points measurements across stack incl. flow rate calculation	1	913012	\$1,584.00	0%	\$1,584.00

OPTIONS & ACCESSORIES

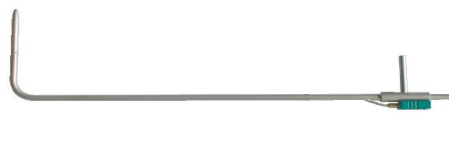
Temperature probes	QTY	Part No.	Unit price	Discount	Total Price
Ambient air probe, -100...+250 °C, Ø 8,0 mm, length 200 mm	1	63923	\$140.00	0%	\$140.00
Thermocouple K contact probe, -100...+250 °C, Ø 4,5 mm, length 150 mm	1	85013	\$208.00	0%	\$208.00
Thermocouple K clamp contact probe, -50...+250 °C, pipe Ø up to 60 mm, 2 m cable	1	85011	\$205.00	0%	\$205.00
Universal probe, -100...+250 °C, Ø 4,5 mm, length 150 mm	1	85001	\$138.00	0%	\$138.00
Universal probe, -100 ...+1.000 °C, Ø 6,0 mm, length 1.000 mm	1	85005	\$327.00	0%	\$327.00

ADDITIONAL MEASUREMENTS

SmartPlus Adaptor	1	64000	\$174.00	0%	\$174.00
NOTE: (*) Option #64000 SmartPlus Adaptor is needed for all other options in this section!!!					
Humidity probe, stainless steel for, relative humidity 3-98% and temperature (high temperature hygrometry probe up to 180°C)*	1	85406	\$902.00	0%	\$902.00
Humidity & amb. temp. probe, for relative humidity 3-98% up to 80°C temperature (*)	1	85402	\$443.00	0%	\$443.00
Gas flow velocity wind turbine probe Ø100 mm, 0,2...35 m/s (*)	1	85401	\$645.00	0%	\$645.00
Air flow cone (200 x 200 mm) for volume flow measurement / NOTE: #85401 is required!	1	63891	\$339.00	0%	\$339.00

PITOT TUBE L-TYPE WITH TEMPERATURE MEASUREMENT

Pitot tube "L"	QTY	Part No.	Unit price	Discount	Total Price
3.94" x 0.12" (100 mm x 3 mm)	1	85125TE-K	\$501.00	0%	\$501.00
11.81" x 0.24" (300 mm x 6 mm)	1	85120TE-K	\$518.00	0%	\$518.00
19.68" x 0.24" (500 mm x 6 mm)	1	85130TE-K	\$563.00	0%	\$563.00
31.48" x 0.24" (800 mm x 6 mm)	1	85132TE-K	\$626.00	0%	\$626.00
39.35" x 0.31" (1000 mm x 8 mm)	1	85133TE-K	\$590.00	0%	\$590.00
49.19" x 0.31" (1250 mm x 8 mm)	1	85134TE-K	\$631.00	0%	\$631.00
59.03" x 0.47" (1500 mm x 12 mm)	1	85135TE-K	\$847.00	0%	\$847.00
78.71" x 0.47" (2000 mm x 12 mm)	1	85137TE-K	\$962.00	0%	\$962.00



Other length on request					
TIG welding for PITOT tube - suitable for up to 1832°F (1000°C)	1	85150	\$271.00	0%	\$271.00

Pitot tubes - S-type with temperature measurement (Other length on request)

Pitot tube S-type, according ISO 10780-Norm, with TIG welding and thermocouple K connecting cable length 5', Temperature up to 1,832°F (1,000°C)	QTY	Part No.	Unit price	Discount	Total Price
19.68" x 0.31" (500 mm x 8 mm)	1	85160	\$1,238.00	0%	\$1,238.00
39.35" x 0.31" (1000 mm x 8 mm)	1	85161	\$1,364.00	0%	\$1,364.00
87.71" x 0.31" (2000 mm x 8 mm)	1	85163	\$1,663.00	0%	\$1,663.00
98.39" x 0.31" (2500 mm x 8 mm)	1	85164	\$1,763.00	0%	\$1,763.00
118.06" x 0.31" (3000 mm x 8 mm)	1	85165	\$1,886.00	0%	\$1,886.00



TRANSPORT OPTIONS	QTY	Part No.	Unit price	Discount	Total Price
Robust transport case for MFplus with compartments for accessories	1	64302	\$280.00	0%	\$280.00

DOCUMENTATION / DATA TRANSFER / PC SOFTWARE (XP, WIN7)

MRU4win - "full" version software, for real time data acquisition and handling on PC with Windows10	QTY	Part No.	Unit price	Discount	Total Price
High speed easy paper loading IR printer (to be charged with analyzer charger)	1	63677	\$373.00	0%	\$373.00
Printer paper, thermal paper, 58 mm x 20 m (1 pack. = 5 rolls)	1	59465	\$20.20	0%	\$20.20

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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.

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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.

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J. General Provisions

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This agreement was last revised on January 30, 2007.