#### DATA SHEET

# OCTOGON

### **E-MEFS-KT**

Calorimetric I	Flow Se	ensor for (	Gase	es S-MEFS-K		
Characteristics				1 - MODULAR - ECONOMIC - METE		
		<ul> <li>Input:</li> <li>Output:</li> <li>Supply:</li> <li>Accuracy:</li> <li>Process connection:</li> <li>Electrical connection:</li> <li>Temperature range:</li> <li>Limit value contacts:</li> <li>Adjustment:</li> <li>Material sensor:</li> <li>Protection:</li> </ul>		010 m/s up to 030 m/s 420 mA 24 VDC VDC see technical data several options several plugs 0+60 °C (ambient) without in factory see technical data at least IP65		
Technical Data						
Input						
Flow: Medium: Measuring principle:	10 m/s / 20 m/s / 30 m/s Reference conditions: 20 °C, 1013 Air, non-corrosive gases Calorimetric			°a		
Output						
Current signal: Load:	420 mA 500 Ω maximum					
Performance						
Sensor unit:	Reference Repeating Reaction ti Dependence	Measurement uncertainty: Reference section: Repeating accuracy: Reaction time: Dependence on temperature: Transient response:		final value, dependent on construction range 10100%) for inflow and outflow . 2 s % / 1K o flow velocity		

#### Applications

For use in air-conditioning and ventilating plants, heating installations and the whole range of industrial facilities. With its numerous electrical connections, the flow sensor is also suitable for applications with higher requirements.



**Calorimetric Flow Sensor for Gases** 

## E-MEFS-KT

#### Technical Data (Continued)

	-		
Supply			
Voltage:	24 VDC, ±10%		
<b>Environmental Conditions</b>	6		
Temperature: Condensation:	Operating range Storage: Medium: uncritical	e: 0+60 °C -20+80 °C -20+70 °C	
Mechanics			
Dimensions: Process connection: Fitting, Nominal length: System pressure: Electrical connection: Material:	80400 mm 10 bar with scre see page 3 Sensor:	<ul> <li>3/4" / 1" / 1,5" / 1/2N</li> <li>wed connection</li> <li>Process connection:</li> <li>Sensor tube:</li> <li>Sensor element:</li> <li>Sensor retainer:</li> <li>Potting:</li> </ul>	stainless steel stainless steel Al <sub>2</sub> O <sub>3</sub> with glassivation FKM epoxy resin
Weight: Fitting position: Protection class:	any Sensor: I	all parts: I/2", 100 mm, M12) P67 at least degree IP65 (when	PBT GF30 n electrical connection is plugged)

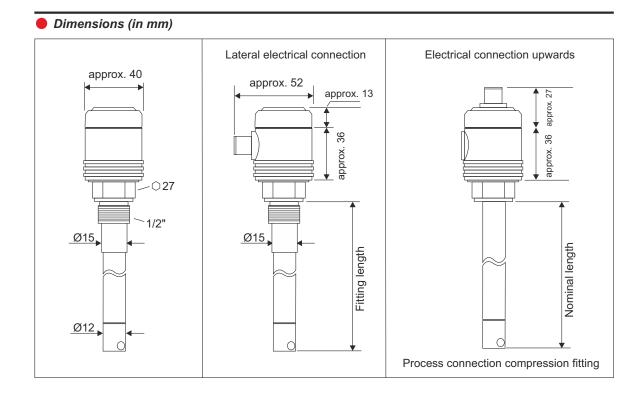
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## E-MEFS-KT

Electrical Connection							
M12x1	Super Seal	Deutsch	Deutsch	Bayonet	Valve	MIL	Cable
5-, 8-pole	3-pole	3-pole	4-pole	4-pole	4-pole	6-pole	4-pole

Connection	Supply		Out	Programming
	U+	U-	+	
M12, 5-pole	1	3	2	5
M12, 8-pole	1	3	6	
Super Seal, 3-pole*	1	3	2	
Deutsch DT04, 3-pole*	A	В	С	4
Deutsch DT04, 4-pole	1	3	2	4
Bayonet DIN, 4-pole	1	2	3	GND
Valve (L-plug), 4-pole	1	2	3	
Cable, 4-pole	yellow	white	green	
Cable, 6-pole	yellow	white	pink	
MIL, 6-pole	A	С	F	

\* When using 3-pole connectors it is not possible to change the measuring range after assembling of the sensor.



**Calorimetric Flow Sensor for Gases** 

## E-MEFS-KT

Order Code

		ΟͿΧΧΧ	x x - )	( - X X
Input flow:	010 m/s 020 m/s 030 m/s	0 1 2		
Output:	420 mA	1		
Process connection:	Without (for compression fitting) 1/2" 3/4" 1" 1,5" 1/2"NPT	0 3 4 5 6 9		
Electrical connection:	Lateral (standard) Upwards		0	
Electr. connection:	M12, 5-pole M12, 8-pole Deutsch DT04, 3-pole Deutsch DT04, 4-pole Super Seal 1.5, 3-pole Bayonet (DIN), 4-pole Valve plug, 4-pole MIL, 6-pole		2 3 4 5 6 7 8 A	
Nominal, Fitting length	: 100 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm Other length (please specify, at least 80 mm)		10 15 20 25 30 35 40	50 50 50 50 50
Configuration:	Factory set			0
Special model:	Non Yes (to specify)			0

Accessories: Compression fitting G1/2"

Page-4

Subject to change, version 42-539