

intelligent electronics

FSM[®]

HVAC & Cleanroom Transmitters

making fresh air sustainable



Product highlight

feel[®] FM | Multi Parameter Transmitter

Discover the variety

Up to 5 measured variables in one unit

High precision as benchmark

Use of the best sensor element for each measurand

Individuality as standard

Configuration of all parameters via USB or DIP switches

Innovative mounting

Snap-in frame enables tool-free exchange

Sustainability

Use of bio-plastics; emission-reduced production

Everything from one source

Development, production, service and sales in Kirchgarten, Germany



Multi Parameter Transmitters

feel® FM | Precise. Reliable. Communicative.

Measurement ranges	Differential Pressure: 0 ... +/- 1 10 100 1000 hPa Humidity: 0 ... 100 % rH Temperature: -40 ... 80 °C -20 ... 60 °C 0 ... 50 °C CO ₂ : 0 ... 2000 ppm 0 ... 5000 ppm VOC: 0 ... 500 VOC-Index 0 ... 100 % IAQ-Index	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	Switchable 0-10 V 2-10 V 4-20 mA 0-20 mA	
Display	2.8"-TFT-Display (optional)	
Mounting	Snap-in-frame or direct wall screw connection	
Options	Switching outputs Auto-Zero Modbus RS485	

Base BM | Compact. Standardized. Cost-efficient.

Measurement ranges	Differential Pressure: each possible range between -1 ... +1 bar in 1 Pa-steps Humidity: 0 ... 100 % rH Temperature: -20 ... 80 °C -20 ... 60 °C 0 ... 50 °C	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	0 ... 10 V 2 ... 10 V 5 ... 10 V 4 ... 20 mA 0 ... 20 mA	
Display	LC-Display (optional)	
Mounting	Room or duct mounted	
Options	Filter material	

Indoor Air Quality (IAQ) Transmitters

feel® FC | CO₂

Measurement ranges	Variant 2000 ppm (switchable between): 0 ... 1000 ppm 0 ... 2000 ppm Variant 5000 ppm (switchable between): 0 ... 1000 ppm 0 ... 2000 ppm 0 ... 3000 ppm 0 ... 5000 ppm	
Overall accuracies	Variant 2000 ppm ± 50 ppm + 2 % of mv Variant 5000 ppm ± 50 ppm + 3 % of mv	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	Switchable 0-10 V 2-10 V 4-20 mA 0-20 mA	
Display	2.8"-TFT-Display (optional)	
Mounting	Snap-in-frame or direct wall screw connection	
Options	Switching outputs Auto-Zero Modbus RS485	

feel® FV | VOC

Measurement range Humidity	VOC-Index (AQI-Index), switchable between: 0 ... 500 VOC-Index 0 ... 375 VOC-Index 0 ... 250 VOC-Index 0 ... 100 VOC-Index	
Overall accuracies	± 15 % FS	
Repeatability	± 5 % FS	
Sensitivity	> 50 ppm	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	Switchable 0-10 V 2-10 V 4-20 mA 0-20 mA	
Display	2.8"-TFT-Display (optional)	
Mounting	Snap-in-frame or duct mounting	
Options	Switching outputs Auto-Zero Modbus RS485	

Differential Pressure Transmitters

feel® FDP | Precise. Reliable. Communicative.

Measurement ranges	4 Basic variants: 0 ... 1, 10, 100 oder 1000 hPa Switchable between: 0 ... 25 % 0 ... 50 % 0 ... 75 % 0 ... 100 % -25 % ... 25 % -50 ... 50 % -75 ... 75 % -100 ... 100 %	
Overall accuracies	1.0 % FS 0.5 % FS 0.2 % FS	
Long-term stability	≤ 0.1 % FS/year	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	Switchable 0-10 V 2-10 V 4-20 mA 0-20 mA	
Display	2.8"-TFT-Display (optional)	
Mounting	Snap-in-frame or direct wall screw connection	
Options	Switching outputs Auto-Zero Modbus RS485	

Base BDP | Compact. Individual. Cost-efficient.

Measurement range	Each possible range between -1 ... +1 bar in 1 Pa-steps; Minimum: -30 ... 30 Pa	
Overall accuracy	1.0 % FS	
Long-term stability	≤ 0.1 % FS/year	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	0 ... 10 V 2 ... 10 V 5 ... 10 V 4 ... 20 mA 0 ... 20 mA	
Display	LC-Display (optional)	
Mounting	Room mounted	
Options	Filter material	

Differential Pressure Transmitters

PrimAtue 10 | Precise. Individual. Communicative.

Measurement ranges	0 ... 0.3-1000 hPa uni- and bidirectional
Overall accuracies	1.0 % FS 0.5 % FS (opt.) 0.2 % FS (opt.)
Long-term stability	≤ 0.5 % FS/year
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC 207 ... 254 VAC (opt.)
Output signal	Choosable: 0-10 V 4-20 mA 0-20 mA
Display	LCD-Display 50 x 15 mm, 4-digit (optional)
Mounting	Screw fitting Top-hat rail EN 50022
Options	Digital interface RS485 Modbus



DS01+ | Compact. Configurable. Cost-efficient.

Measurement ranges	3 Basic variants 0 ... 1 hPa 0 ... 10 hPa 0 ... 100 hPa Switchable between 0 ... 25 % 0 ... 50 % 0 ... 75 % 0 ... 100 % -25 % ... 25 % -50 ... 50 % -75 ... 75 % -100 ... 100 %
Overall accuracies	1.0 % FS
Long-term stability	≤ 0.1 % FS/year
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC
Output signal	Switchable 0-10 V 2-10 V 4-20 mA 0-20 mA 4-20 mA two-wire
Display	LC-display 3.5-digit (optional)
Mounting	Screw fitting



Humidity and Temperature Transmitters

feel[®] FHT | Precise. Reliable. Communicative.

Measurement range Humidity	Switchable between: rel. humidity 0 ... 100 % rH Enthalpy -50 ... 400 kJ/kg abs. humidity 0 ... 150 g/m ³	
Measurement range Temperature	Switchable between: -40 ... 80 °C -20 ... 60 °C 0 ... 50 °C	
Overall accuracies	± 2 % rH @ 10 ... 90 % rH ± 0.3 K @ 0 ... 50 °C	
Long-term stability	± 0.5 % rH/year ± 0.05 K/year	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	Switchable 0-10 V 2-10 V 4-20 mA 0-20 mA	
Display	2.8"-TFT-Display (optional)	
Mounting	Room (snap-in-frame) or duct mounted	
Options	Switching outputs Modbus RS485	

Base BHT | Compact. Standardized. Cost-efficient.

Measurement range	Rel. Humidity: 0 ... 100% rH Temp.: -20 ... 80 °C -20 ... 60 °C 0 ... 50 °C selectable via model code	
Overall accuracy	± 2 % rH @ 10 ... 90 % rH ± 0.3 K @ 0 ... 50 °C	
Long-term stability	± 0.5 % rH/year ± 0.05 K/year	
Supply voltage	22 ... 27 VAC (50 Hz) / 19 ... 31 VDC	
Output signal	0 ... 10 V 2 ... 10 V 5 ... 10 V 4 ... 20 mA 0 ... 20 mA	
Display	LC-Display (optional)	
Mounting	Room and duct mounted	

Product solutions

Differential Pressure Transmitters

Down to 20 Pa | ± 0.2 % FS



Humidity and Temperature Transmitters

± 2 % rF | ± 0.3 K | Room or duct



VOC Transmitters

± 15 % | sensitive to 0.05 ppm



CO₂ Transmitters

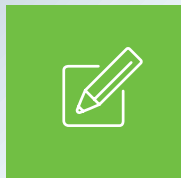
± 50 ppm + 2 % of mv



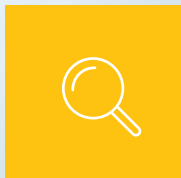
Customized developments



01 | Idea



02 | Concept
& Quotation



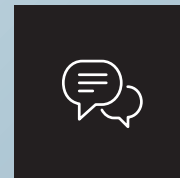
03 | Detailed
Conception



04 | Develop-
ment



05 | Series
production



06 | Service