

Submersible level transmitters

ATM/N 19



Version: 28.03.2012

Technical Specifications

Pressure measuring range (mH₂O)

	1 ... 5	> 5 ... 20	> 20 ... 250
Overpressure	3 bar	3 x FS	3 x FS
Burst pressure	> 200 bar	> 200 bar	> 200 bar
Accuracy, (1), (± % FS)	≤ 0.5 / ≤ 0.25	≤ 0.5 / ≤ 0.25 / ≤ 0.1	≤ 0.5 / ≤ 0.25 / ≤ 0.1
Thermal shift, (± % FS/°C)			
Zero point -5...50°C	≤ 0.06	≤ 0.03	≤ 0.015
Span -5...50°C	≤ 0.015	≤ 0.015	≤ 0.015
Total Error, (2), (3), (± % FS)			
-5...50 °C, (typ. / max.)	≤ 0.8 / 1.0	≤ 0.3 / 0.5	≤ 0.3 / 0.5
Response time, (typ.)	< 1ms / 10...90%	< 1ms / 10...90%	< 1ms / 10...90%
Long term stability, (4)	< 0.5% FS / < 4 mbar	< 0.2% FS / < 4 mbar	< 0.1% FS / < 0.2% FS

(1) Zero based accuracy according to DIN 16086, incl. hysteresis and repeatability at ambient temperature

(2) Only for current output

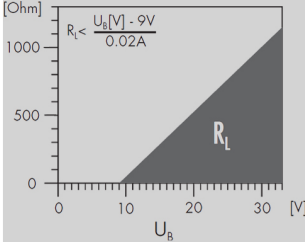
(3) Total error including accuracy and temperature influences at maximum signal span (16 mA)

(4) 1 year (typ. / max.), the long term stability can be improved by ageing (burn-in) the sensor

Temperature range

Operating temperature	-5...50 °C
Process temperature	-5...50 °C
Storage temperature	-5...50 °C

Electrical specifications

	4 ... 20 mA	0 ... 5 V / 0 ... 10 V
Power supply	9...33 V	15...30 V DC
Supply influence	< 0.1% FS	0.1% FS
Current consumption		3 mA
Load resistance		$R_L > 10k\Omega$
Load influence	< 0.1% FS	< 0.1% FS

Qualifications

	Description	Level	Typical interferences
EN 61000-4-2	Electrostatic discharge	4 kV contact 8 kV air	
EN 61000-4-3	Irradiated RF	10V/m (0.08...2.7 GHz, 3s)	Radio sets, wireless phones
EN 61000-4-4	Transients (burst)	2 kV	Motors, valves
EN 61000-4-5	Surge	Line-Line: 0.5 kV/42 Ω Line-Earth: 1 kV/42 Ω	Lightning
EN 61000-4-6	Conducted RF	10 V (0.15...80 MHz, 3 s)	Frequency converters

Physical specifications

Materials	
Transducer	Stainless steel (316L / 1.4435)
Housing	Stainless steel (316L / 1.4404)
Seals	Viton
Cabel	PUR, PE

Equipment

Overview

10.00.0091	Accessories overview

Additional documents

Operating and safety instructions

	Article number
10.88.0092	DMM029

Ordering information

		X. XXXX.	XXXX.	XX.	XXX
Type	ATM/N 19	19			
Pressure type	Gauge	1			
	Absolute (vacuum)	2			
Pressure measuring range	Any pressure measuring ranges between 0...1 mH2O and 0...250 mH2O available, (1)	XX			
Process connection	Closed	55			
Electrical connection	PE cable, IP 68, (2), (3)		13		
	PUR cable, IP 68, (2)		15		
Output signal	4...20 mA		05		
	0...5 V DC		46		
	0...10 V DC		47		
Accuracy	≤ ± 0.5 % FS			0	
	≤ ± 0.25 % FS			1	
	≤ ± 0.1 % FS			2	
Temperature range	-5...50 °C compensated (allowed process temperature: -5...50 °C)			4	
Option 1	Special oil filling: ASEOL Food (for food applications)				G
	Special oil filling: Halocarbon (for oxygen applications) (4)				H
Option 2	Electronics packed in gel: Gauge pressure				C
	Electronics packed in gel: Absolute pressure				D
Option 3	Aging				Z

(1) mH2O, mWS, mWC etc. available

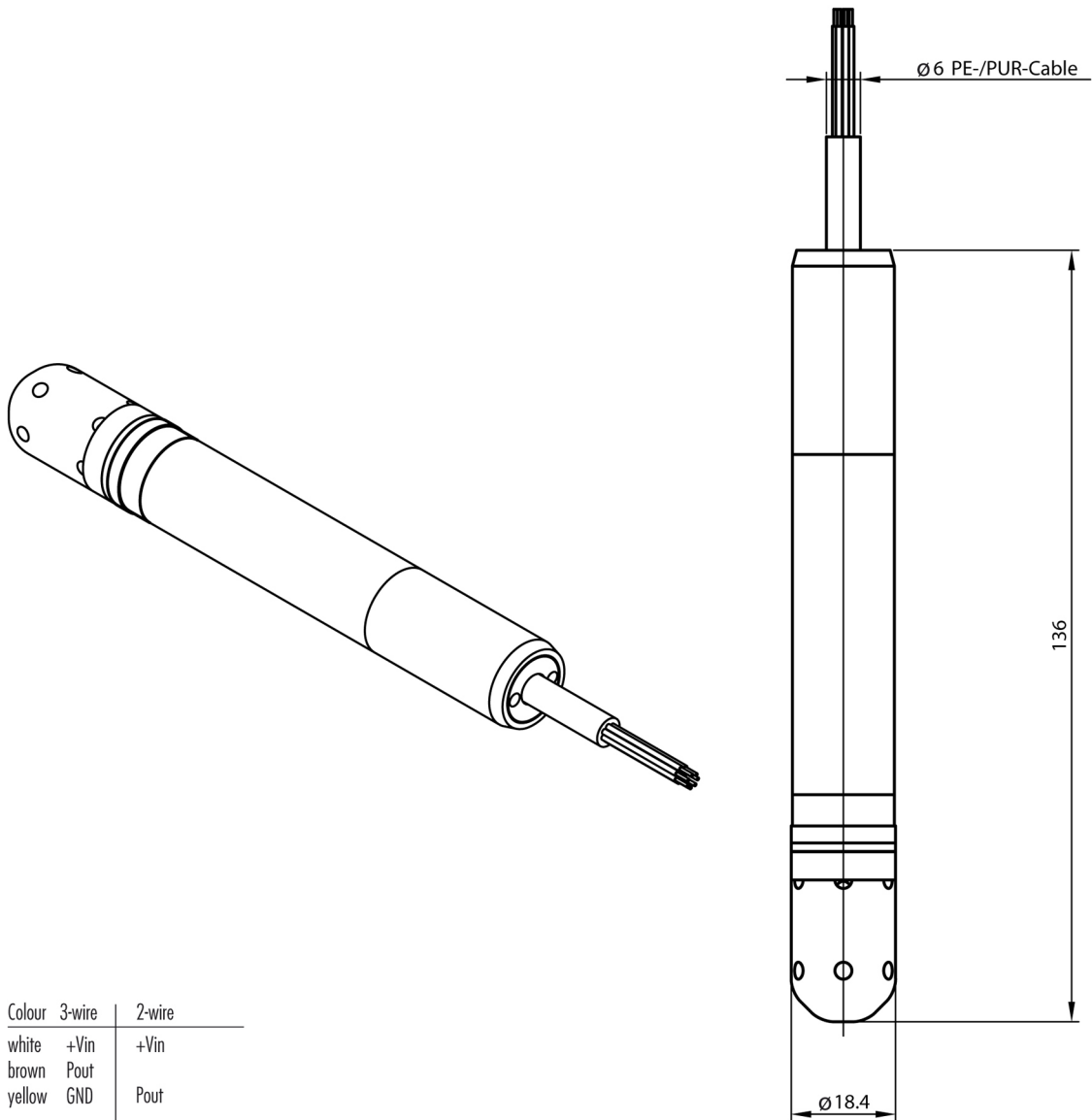
(2) Please specify the required cable length and medium

(3) Suitable for drinking water (food approved)

(4) min. Medium temperature -25 ° C

Technical drawings

Dimensions



Colour	3-wire	2-wire
white	+Vin	+Vin
brown	Pout	
yellow	GND	Pout

Specifications may change without notice.

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