

ATM/N 19



Features

- Diameter 19 mm
- Measuring range 2 mWs...250 mWs
- Piezoresistive measuring element
- Versions with PE or PUR cable

Typical Applications

Fluid and level measurement in:

- Fountains
- Boreholes
- Pots
- Waters

Specifications

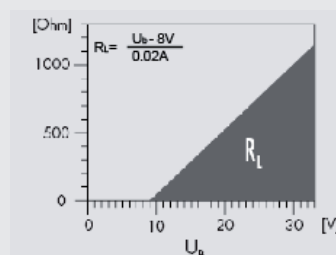
Pressure range	[bar]	0.1 ... 0.5	> 0.5 ... 2	> 2 ... 25
Overpressure	[bar]	3 bar	3 x FS	3 x FS
Burst pressure	[bar]	≥ 200	≥ 200	≥ 200
Accuracy	[± % FS]	≤ 0.5 ≤ 0.25	≤ 0.5 optional ≤ 0.25 optional ≤ 0.1	≤ 0.5 optional ≤ 0.25 optional ≤ 0.1
Temperature error	[± % FS/°C]			
Zero	-5...50°C	≤ 0.06	≤ 0.03	≤ 0.015
Span	-5...50°C	≤ 0.015	≤ 0.015	≤ 0.015
Temperature in use			-5...50°C	
Storage temperature			-25...85°C	
Response time		< 1ms / 10...90% Nominal pressure		
Long-term stability (1 year) (typ./max.)		< 0.5 %FS / < 4 mbar	< 0.2 %FS / < 4 mbar	< 0.1 %FS / 0.2 %FS
Electrical connection		4...20 mA	0...5 V / 0...10 V	
Type		two wire current transmitter	three wire voltage transmitter	

Supply voltage
Supply voltage influence

8...33 V
< 0.1 %FS

15...30 V DC
0.1 %FS

Load resistance



$R_L > 10k\Omega$

Load resistance influence

< 0.1 %FS

< 0.1 %FS

Materials

Pressure connector, membrane, Case
Cable

Stainless steel 1.4435 (316L)
PE, PUR

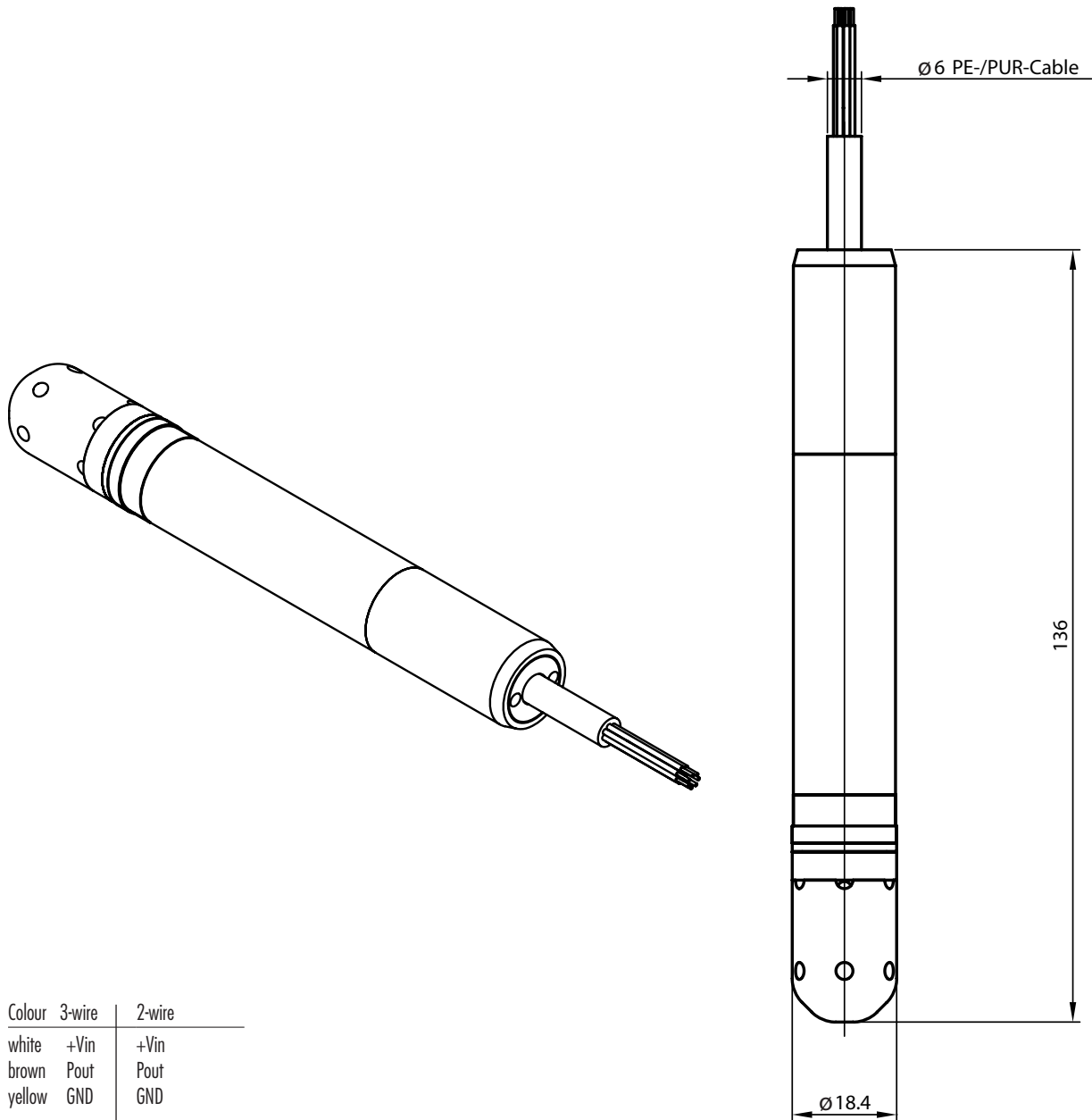
Electromagnety compatibility

Norm	Level	Typical interferences
Emission:		
EN 61000-6-3 EN 55022	Generic emission standard Emission, class B	
Immunity:		
EN 61000-6-2	Generic immunity	
EN 61000-4-2	Electrostatic discharge	Level 4 (8kV contact, 15kV air)
EN 61000-4-3	Radiated electro-magnetic field	10V/m, 80-1000 MHz, 80% AM 1kHz
EN 61000-4-3	Radiated electro-magnetic field (GSM)	10V/m, 950 MHz, 200 Hz on/off
EN 61000-4-4	Fast transients (burst)	2kV
EN 61000-4-5	Surge	10 V, 0.15-80 MHz, 80% AM 1 kHz
EN 61000-4-6	Line conducted electromagnetic interference	500 V
		Cellular phones, radio sets Digital portable phones Motors, valves Lightning strikes radio sets, cellular phones

Specifications

Specifications		94	X	XXXX	XXXX	XX	XXX
Type	ATM/N 19	94					
Pressure type	Relative pressure	1					
	Absolute pressure (vacuum)	2					
	Overpressure	3					
Pressure range	Any pressure ranges from 0...200 mbar and 0...25 bar available			XX			
Pressure connection	closed			55			
	other connections available			XX			
Electrical connection	PE cable	IP68			13		
	PUR cable	IP68			15		
Output signal	4...20 mA					05	
	0...5 V DC					46	
	0...10 V DC					47	
	other output signals available					XX	
Accuracy	$\leq \pm 0.5$ %FS						0
	$\leq \pm 0.25$ %FS						1
	$\leq \pm 0.1$ %FS						2
Temperature range	-5...50°C compensated (admissible medium temp. -5...50°C)						4
Options	Humidity filter element						Z

Dimensions



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

Specifications may change without notice.

DED049/10.00.0256.B 11/2008

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