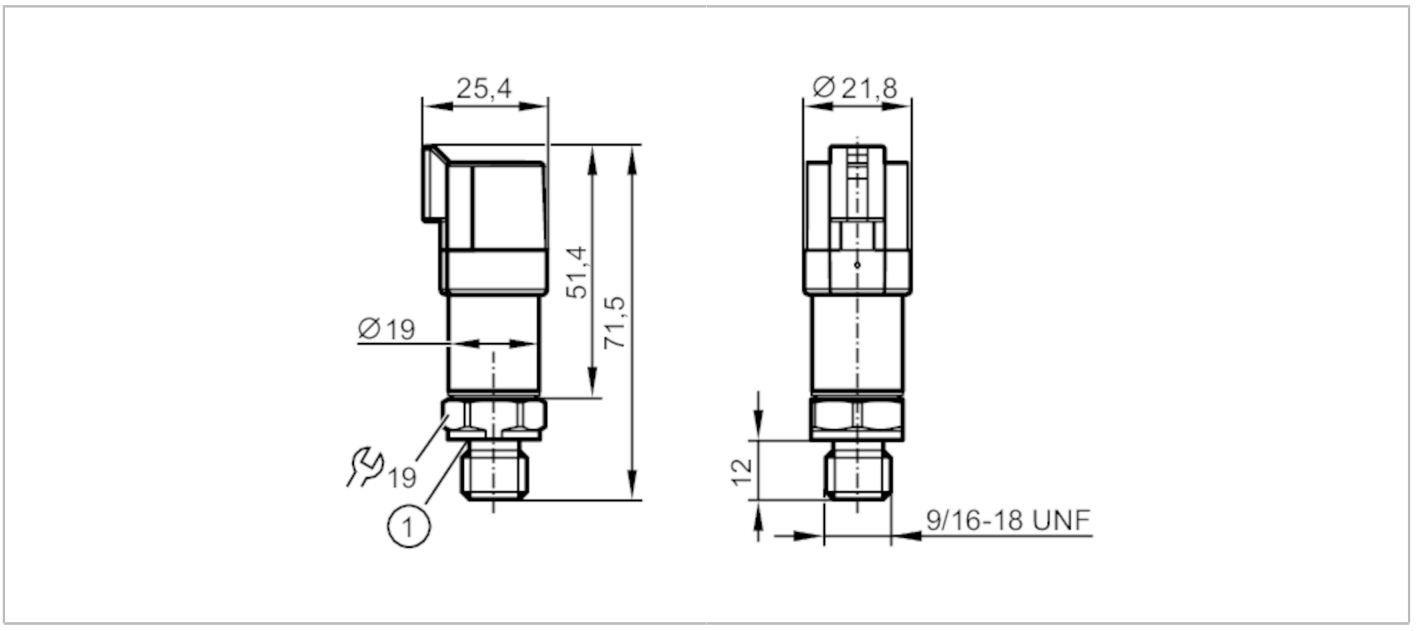
PU1700

Pressure transmitter

PU-500PSEU96-V-DVG/DE



Product characteristics		
Number of inputs and outputs		Number of analogue outputs: 1
Measuring range	[psi]	0...5000
Process connection		threaded connection 9/16" - 18 UNF external thread
Application		
Application		for mobile applications
Media		liquids and gases
Medium temperature	[°C]	-40...125
Min. bursting pressure	[psi]	24650
Pressure rating	[psi]	14500
Note on pressure rating		static
Vacuum resistance	[psi]	-14.5
Type of pressure		relative pressure
Electrical data		
Operating voltage	[V]	8...32 DC
Current consumption	[mA]	< 12
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 0.1
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 1
Outputs		
Total number of outputs		1
Output signal		analogue signal
Number of analogue outputs		1

PU1700

Pressure transmitter

PU-500PSEU96-V-DVG/DE

Analogue voltage output	[V]	0.5...4.5
Min. load resistance	[Ω]	2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range	[psi]	0...5000
Accuracy / deviations		
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation	[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS)
Hysteresis deviation	[% of the span]	< ± 0,2
Long-term stability	[% of the span]	< ± 0,1; (per 6 months)
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Response times		
Step response time analogue output	[ms]	2
Operating conditions		
Ambient temperature	[°C]	-40...100
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 69K
Tests / approvals		
EMC		compliant with UN ECE R10, rev. 5
		ISO 11452-2 — 100 V/m
		DIN EN 61326-1
Shock resistance		DIN EN 60068-2-27 — 500 g (1 ms)
Vibration resistance		DIN EN 60068-2-6 — 20 g (10...2000 Hz)
MTTF	[years]	652
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	62
Materials		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PPS
Materials (wetted parts)		1.4542 (17-4 PH / 630)
Min. pressure cycles		60 million; (at 1.2 times nominal pressure)
Tightening torque	[Nm]	25...35; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection		threaded connection 9/16" - 18 UNF external thread
Process connection sealing		HNBR (DIN EN ISO 1179-2)
Restrictor element integrated		yes

PU1700

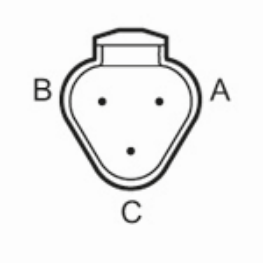
Pressure transmitter

PU-500PSEU96-V-DVG/DE

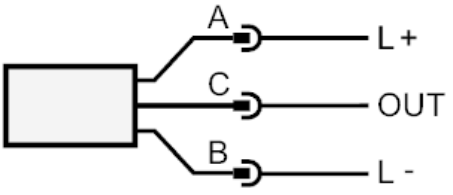
Remarks	
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Maximum cable length: 30 m



Connection



OUT	analogue output