

Transducer Transmitter

FEATURES

- ATEX approved EEx ia IIC T4
- IP67
- Well protected enclosure
- Two wires transmitter

APPLICATIONS

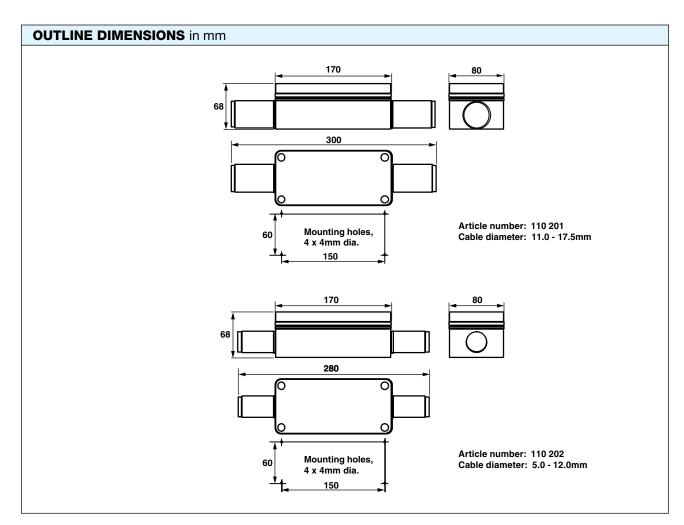
- Transducers in ATEX area
- Force measurement

DESCRIPTION

BILT 4 is a two wire current loop transmitter designed for industrial applications by means of strain gage transducers. Build in a protected polycarbonate enclosure with protection from dust and humidity. BILT 4 is approved for ATEX areas.







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Transducer Transmitter

PARAMETER VALUE	SPECIFICATIONS	
Ex approval SP Ex 01.E.604	PARAMETER	VALUE
EEx is IIC T4	EX. SAFETY DESCRIPTION	
T _{smb} (temperature range)	Ex approval	SP Ex 01.E.604
U ₁ 30 V P ₁ 1.30 W I ₁ 200 mA C ₁ 30.0 nF L ₁ 10.0 μH ANALOG OUTPUT	EEx ia IIC T4	Intrinsically safe
P₁ 1.30 W I₁ 200 mA C₁ 30.0 nF L₁ 10.0 μH ANALOG OUTPUT Current 4-20 mA Nonlinearity <0.1% of range	T _{amb} (temperature range)	-20 to +40°C
I, 200 mA C ₁ 30.0 nF L ₁ 10.0 μH ANALOG OUTPUT Current 4-20 mA Nonlinearity <0.1% of range TRANSDUCER INPUT Transducers 350-1000 Ω Excitation 0.96 VDC Signal input 0.4-3.8 mV/V Zero adjustment (with 350 Ω transducer) ±0.58 mV/V Calibration methods Dead weight, shunt, and with transducer simulator MECHANICAL DATA IP67 Art. No. 110 201: Dimension (incl. protection at cable glands) 300×80×88 mm 11.0-17.5 mm Art. No. 110 202: Dimension (incl. protection at cable glands) 280×80×88 mm 5.0-12.0 mm Cable diameter 5.0-12.0 mm ENVIRONMENTAL -25 to +70°C In intrinsic safe circuit -25 to +40°C POWER SUPPLY – UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8-30 VDC	U _i	30 V
C₁ 30.0 nF L₁ 10.0 μH ANALOG OUTPUT Current 4-20 mA Nonlinearity <0.1% of range TRANSDUCER INPUT Transducers 350-1000 Ω Excitation 0.96 VDC Signal input 0.4-3.8 mV/V Zero adjustment (with 350 Ω transducer) ±0.58 mV/V Calibration methods Dead weight, shunt, and with transducer simulator MECHANICAL DATA Protection IP67 Art. No. 110 201: 300×80×68 mm Dimension (incl. protection at cable glands) 300×80×68 mm Cable diameter 11.0-17.5 mm ENVIRONMENTAL 280×80×68 mm Cable diameter -25 to +70°C In intrinsic safe circuit -20 to +40°C POWER SUPPLY - UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8-30 VDC	P _i	1.30 W
L, 10.0 μH ANALOG OUTPUT Current 4–20 mA Nonlinearity <0.1% of range TRANSDUCER INPUT Transducers 350–1000 Ω Excitation 0.96 VDC Signal input 0.4–3.8 mV/V Zero adjustment (with 350 Ω transducer) ±0.58 mV/V Calibration methods Dead weight, shunt, and with transducer simulator MECHANICAL DATA Protection Art. No. 110 201: 1P67 Dimension (incl. protection at cable glands) 300×80×68 mm Cable diameter 300×80×68 mm Art. No. 110 202: 11.0–17.5 mm Dimension (incl. protection at cable glands) 280×80×68 mm Cable diameter 5.0–12.0 mm ENVIRONMENTAL -25 to +70°C Operating temperature -25 to +40°C POWER SUPPLY – UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8–30 VDC		200 mA
ANALOG OUTPUT 4-20 mA Current 4-20 mA Nonlinearity <0.1% of range TRANSDUCER INPUT Transducers 350-1000 Ω Excitation 0.96 VDC Signal input 0.4-3.8 mV/V Zero adjustment (with 350 Ω transducer) ±0.58 mV/V Calibration methods Dead weight, shunt, and with transducer simulator MECHANICAL DATA Protection MECHANICAL DOT: IP67 Art. No. 110 201: Othersion (incl. protection at cable glands) 300.x80.x80 mm Cable diameter 280.x80.x68 mm Cable diameter 280.x80.x68 mm Cable diameter 280.x80.x68 mm Cable diameter -25 to +70°C In intrinsic safe circuit -20 to +40°C POWER SUPPLY - UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8-30 VDC	C _i	30.0 nF
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Nonlinearity	ANALOG OUTPUT	
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Transducers 350-1000 Ω	Nonlinearity	<0.1% of range
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Dimension (incl. protection at cable glands) Cable diameter Art. No. 110 202: Dimension (incl. protection at cable glands) Cable diameter ENVIRONMENTAL Operating temperature -25 to +70°C In intrinsic safe circuit POWER SUPPLY – UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8–30 VDC	Protection	IP67
Dimension (incl. protection at cable glands) Cable diameter ENVIRONMENTAL Operating temperature -25 to +70°C In intrinsic safe circuit POWER SUPPLY – UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8–30 VDC	Dimension (incl. protection at cable glands)	
Operating temperature -25 to +70°C In intrinsic safe circuit -20 to +40°C POWER SUPPLY – UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8-30 VDC	Dimension (incl. protection at cable glands)	
In intrinsic safe circuit POWER SUPPLY – UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8–30 VDC	ENVIRONMENTAL	
POWER SUPPLY - UNREGULATED POWER SUPPLIES CAN NOT BE USED Voltage 8-30 VDC	Operating temperature	−25 to +70°C
Voltage 8–30 VDC	In intrinsic safe circuit	−20 to +40°C
	POWER SUPPLY - UNREGULATED POWER SUPPLIES CAN NOT BE USED	
Consumption 4–20 mA	Voltage	8-30 VDC
	Consumption	4–20 mA



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