



Advanced Seismic Instrumentation & Research

ABBT

P/N 100023

MidLine Broadband optical borehole accelerometer with RTD Temperature Probe

The ABBT is our standard ABB Broadband 3-component accelerometer sonde plus a built-in high temperature probe. It can be installed in 76 mm (or larger) boreholes with tilts of up to 15°.



Features

- > rugged optical sensors with high shock tolerance
- > active sensors with low power consumption
- > high tilt tolerance of up to 15°
- > for permanent or temporary installations
- > industrial RTD temperature probe

Sensor Parameters

Passband (± 3 dB)	0.008 (125 sec) - 1200 Hz
Flat response to acceleration (± 1 dB)	0.02 (50 sec) - 300 Hz
Dynamic Range	172 dB
Clip Level	± 0.5 g
Depth Range	0 - 1500 m
Distortion	< 0.03 %
Max V out	60 V pk-pk
Shock Tolerance	> 1500 g
Supply Voltage (Min)	11 V DC
Power Consumption	140 mW for 3 components
Operating Temperature	-35 to +85 °C
Sensitivity	60 V/g
Sensor Type	3-C optical interferometer
Tilt Tolerance	15°

Sonde Dimensions

Height	890 mm
Outer Diameter	61 mm
Weight	8 kg

Cable

Delivered standard with 6 twisted shielded pairs, 800 kg Kevlar core, non-armored.
Can be supplied with cable to meet customer specified requirements and length.



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Built-in push-in RTD Temperature Probe with connecting cable



Temperature Probe Features

Model	902150/10
Operating Temperature	-50 to +180°C / silicone
Measurement Insert	1xPt 100 in 3 wire circuit
Tolerance Class	Class B (standard)
Protection Tube Diameter	5.2 mm
Insertion Length (EL)	50 mm (not for D<6mm)
Connecting Cable end	Ferrules (standard)
Connecting Cable length AL	2500 mm
Extra Code	000 (without extra code)

JUMO dTRANS T06 multifunction four-wire transmitter

The transmitter acquires the temperature through an RTD temperature probe or a thermocouple (double thermocouple). The transmitter can also acquire standard signals such as current 0 to 20 mA or voltage 0 to 10 V. Additionally, resistance / potentiometer with two-wire/three-wire/four-wire circuit can be acquired. The output signal is galvanically isolated from the measurement input and voltage supply. The new JUMO dTRANS T06 multifunction four-wire transmitter is suitable for challenging applications in plant engineering. The compact mounting rail case with a design width of 22.5 mm and coded plug-in terminals allows for quick control cabinet installation and safe replacement during calibration or maintenance work.



JUMO dTRANS T06 Transmitter Features

2/3-wire circuit Measurement range	-100 to +200°C (+/- 0.2K) -200 to +850°C (+/- 0.4K)
Sensor Line Resistor	max. 50 Ω per line
D/A Converter Resolution	> 15 bit
Analog Output Voltage	0 to 10 VDC (configurable)
Voltage Supply	24 VDC; 110 to 240 VAC
Power Consumption	max. 3 W
Operating/storage temp. range	$\leq$ 85% relative humidity