

Inline USB module BD 341

Special features

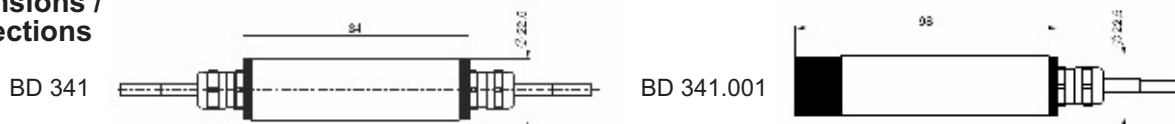
- USB 2.0 interface
- 2 measuring ranges
- Sampling rate up to 1600 values/sec
- 0.01% accuracy
- Display and operation via ASTAS software



Application

The USB module enables direct connection of a strain-gauge load cell to a PC. It is supplied ready-wired to the load cell. The variant BD 341.001 permits connection of a load cell with a plug connector.

Dimensions / connections



Specifications

Input		Load cell with full-bridge strain gauge (350 Ohm)
Input signal range (=S*)	mV/V	0.3 ... 5
Sensor supply voltage	V DC	5
Internal resolution at 2 mV/V		22 bit
Sampling rate (averaging)	1/sec	6.25...1600
Measured value communication via USB		max. 1600 values/sec with ASTAS software
Power supply		via USB port
Ambient conditions		
Operating temperature range	°C	-10...+50
Storage temperature range	°C	-20...+70
Error at S=2 mV/V		
Linearity	%S	0.0015
Noise (at sampling rate)	%S	0.002 (6.25 Hz)...0.04 (1600 Hz)
Zero drift	%S/10 K	0.002
Design		
Dimensions:	mm	84 / 98 x dia. 22.5
Weight	g	200
Protection category (EN 60529)		IP65

*S = Measuring range end value

Operation PC software **ASTAS**: Setup, calibration, visualisation and saving of measurement data

Type code

Type code	Description
BD 341	Inline USB module, wired to sensor, CD-ROM with user manual and ASTAS software
BD 341.001	
	Inline USB module, with 6-pin flange socket for connection of an A.S.T. load cell (also with TEDS), CD-ROM with user manual and ASTAS software

Data sheet BD 341 • Subject to technical changes • 05/2010