



# Data Sheet



## Adash 3900

### Converter of vibration to 4 - 20 mA current loop

#### Applications:

- Basic vibration diagnostics measurement
- Predictive maintenance
- Measurement of bearing condition

#### Characteristics:

- Measurement of RMS and PEAK vibration values in:
  - LF - velocity in mm/s, freq. band 10-1,000 Hz
  - LIN - acceleration in g (9.81 m/s<sup>2</sup>), freq. band 0.8 Hz-16 kHz
- Measured quantity is transferred to 4-20 mA current loop
- The quality piezo sensor is used, standard sensitivity of 100 mV/g
- Continuous check of break in cable or sensor
- Simple installation to DIN rail
- Simple connection to control systems (PLC)
- Protection against any electric break - the current drops to 4 mA immediately
- Any electric break causes, the current drops to 4 mA immediately and the control system does not generate an incorrect response



#### Description:

The Adash 3900 unit is simple tool for vibration measurement, which is intended for process control and reliability systems, machinery protection systems and generally for all the applications concerning the maintenance and monitoring of machinery condition. Thus, a large variety of applications are possible for motors, fans, pumps, gearboxes, small turbines, bearing diagnostics etc. All measured values are transferred to current loop 4-20 mA. It is simple to use it in control systems. On the front panel are check LEDs, which inform about power supply ON and a break of cable or sensor.

#### Technical specification:

<b>Input:</b>	ICP <sup>®</sup> for vibration sensor 100 mV/g (ICP <sup>®</sup> powering)	
<b>Output:</b>	Current loop 4 – 20 mA	
<b>Meas. Ranges:</b>	0 – 3.2 g	0 – 16 g
	0 – 16 mm/s	0 – 64 mm/s
<b>Freq. Bands:</b>	0.8 – 16 kHz	
	10 Hz – 1 kHz	
	<i>Freq. ranges are possible to manufacture according to any user option.</i>	
<b>Sensor:</b>	100 mV/g, ICP <sup>®</sup> powered	
<b>LEDs:</b>	PWR	check of power supply
	ICP <sup>®</sup> Err	wrong sensor or cable
<b>Supply:</b>	20 - 28 V DC, possible external current loop supply up to 30 V DC (for long cables)	
	max. 60 mA + loop current of 20 mA	
<b>Dimension:</b>	90 x 53 x 58 mm	
<b>Weight:</b>	130 g	
<b>Protection:</b>	IP 20	

ICP<sup>®</sup> is registered trademark of PCB Piezotronics, Inc.