

Position – Strain amplifier

Sub-miniature strain gauge amplifiers



Description

These miniature amplifiers are used to amplify the signal from a 'full bridge' strain gauge into a 0-5v signal that may be measured easily and cheaply by almost any data logging system

Three versions are available.

AMPT – Amplifier in miniature in-line aluminium housing with fixed gain and offset

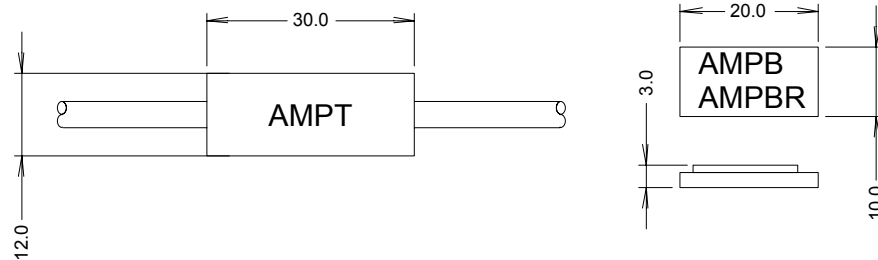
AMPB – Miniature 'PCB only' amplifier with fixed gain and offset

AMPBR - Miniature 'PCB only' amplifier with adjustable gain and offset**

**Adjustable versions use different SMD resistors to create the adjustment



Dimensions



Technical Data – All versions

AMPT dimensions30 x 12 x 10 mm
 AMPB dimensions 20 x 10 x 3 mm
 Output0-5 v
 Gain adjustable – AMPBR only 1500
 Supply voltage5 > 16 v
 Compensated0 > 100 °c
 Current (without gauge)<1 mA
 Current with 350Ohm gauge15 mA
 Gauge excitation voltage5 v

Gauge type Full bridge
 Signal offset0.5v > 2.5v
 Offset error 15 mV
 Offset drift (10°C to 80°C) 20 mV
 Gain error 0.12 %
 Gain drift (10°C to 80°C) 0.20%
 Housing - AMPT Anodised aluminium

Ordering information

| Part No. | Description | Order Code |
|----------|--|-------------|
| CS228 | AMPB – Miniature 'PCB only' amplifier with fixed gain and offset | 23810510002 |
| CS075 | AMPBR - Miniature 'PCB only' amplifier with adjustable gain and offset | 23810510001 |
| CS076 | AMPT - Amplifier in miniature in-line aluminium housing with fixed gain and offset | 23810510003 |

Voltage offset and Gain must be specified at the time of ordering

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