

Blackbox 130

Technical Specification:



PHYSICAL: MOUNTING OPTION SPECIFIC:

| Mounting option: | Standard Wall Mount: | Large Wall Mount: |
|---------------------------------|---|---|
| Sensor body dimensions: | 130 x 150 x 63.5 mm (5.12 x 5.9 x 2.5 in) | 130 x 180 x 85 mm (5.12 x 7.09 x 3.35 in) |
| Sensor body weight: | Nominal 0.65kg (1.4lbs) | Nominal 0.75kg (1.65lbs) |
| Enclosure material/description: | | ABS Base with polycarbonate lid, flamability rating UL94HB |
| Cable entry detail: | Underside fitted with 3 x M20, nylon cable glands suitable for 6-12mm cable | Underside fitted with 3 x M20, nylon cable glands suitable for 6-12mm cable |

PHYSICAL: ALL MOUNTING OPTIONS:

| | |
|------------------------------|---|
| Transducer cable extensions: | 2-core screened (2 conductor 20AWG screened) |
| Nominal separation: | 1000m (3280ft) For greater separation distances please contact us |

ENVIRONMENTAL:

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| Flammable Rating: | IP66/67 |
| Flammable atmosphere approval: | All Blackbox units must be mounted in a safe area. Compatible with approved dB Transducers |
| Max./Min temperatures (electronics): | -20 °C to +55 °C (-4 °F to +131 °F) |

APPROVALS:

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| CE approval: | See EC Declaration of Conformity in the manual |
| UL/C-UL: | UL Listed. UL Listed to Canadian Safety Standards. Certificate Number E257330. |

PERFORMANCE:

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|-----------------------|--|
| Accuracy/Repeability: | 0.25% of the measured range or 6mm (whichever is greater) |
| Resolution: | dB MACH3 0.25mm, dB3 0.5mm, dB6 and dB10 1mm, dB15 1.5mm, dB25 2.5mm and dB40 5mm. |
| Min. & max. range: | Dependent on Transducer. Nominally 125mm to 40m (0.41ft to 130ft) |
| Rate response: | Fully adjustable |
| Echo processing: | DATEM (Digital Adaptive Tracking of Echo Movement) |

OUTPUTS:

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| Analogue output: | Isolated or non-isolated output of 4-20mA or 0-20mA into 1K Ω (user programmable and adjustable) 0.1% resolution |
| Digital output: | RS232 for programming and data extraction |
| Volt free contacts, number & rating: | 2 form "C" (SPDT) rated at 2A at 240V AC |
| Display: | 2x12 alpha numeric |

PROGRAMMING:

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|----------------------------|---|
| On-board programming | Via RS232 using supplied software |
| PC programming: | |
| Programming security: | Via Passcode (user selectable and adjustable) |
| Programmed data integrity: | Via non-volatile RAM |
| Remote programming: | Via RS232 using optional handheld calibrator |

SUPPLY:

| | |
|---------------|---|
| Power supply: | 115Vac +5% / -10% 50/60Hz, 230Vac +5% / -10% 50/60Hz, 10-28Vdc, 10W maximum power (typically 5W) |
| Fuses: | 50mA at 230Vac, 100mA at 115Vac |

REMOTE COMMUNICATOR:

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|---------------|---|
| Power supply: | Power supplied via Blackbox RS232 interface |
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Pulsar Process Measurement Ltd. operates a policy of constant development and improvement and reserves the right to amend technical details as necessary.

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