

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:

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:

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:

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:

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:

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:

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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Pulsar Process
Measurement Ltd.
Malvern, WR14 1JJ, UK
Tel: +44 (0) 1684 891371
Email: info@pulsar-pm.com
www.pulsar-pm.com

Represented by:



Telephone: 905-888-0063 Fax: 905-888-6381
14 Gormley Industrial Ave. Unit #5
Gormley, Ontario L0H-1G0 Canada
E-Mail: sales@acild.ca Website: WWW.ACILTLD.CA