

# **BLACKBOX**

## Technical Specifications:

Blackbox 130 is a compact low-cost intelligent controller that offers non-contacting level measurement. The unit features a 4-20mA output proportional to level and two alarm or control relays.



### PHYSICAL: MOUNTING OPTION SPECIFIC

<b>Mounting Option:</b>	Standard Wall Mount:	Large Wall Mount:
Controller Body Dimensions:	130 mm x 150 mm x 63.5 mm (5.12 in x 5.9 in x 2.5 in)	130 mm x 180 mm x 85 mm (5.12 in x 7.09 in x 3.35 in)
Weight:	Nominal 0.65 kg (1.4 lb)	Nominal 0.75 kg (1.65 lb)
Enclosure Material/ Description:		ABS Base with polycarbonate lid, flammability rating UL 94 HB
Cable Entry Detail:	Underside fitted with 3 $\times$ M20, nylon cable glands suitable for 6 mm to 12 mm (0.24 in to 0.47 in) cable	Underside fitted with 3 x M20, nylon cable glands suitable for 6 mm to 12 mm (0.24 in to 0.47 in) cable
Transducer Cable Extensions:	2-core screened (2 conductor 20 AWG screened)	
Nominal Separation:	1,000 m (3,280 ft), for greater separation distances please contact us	

## **ENVIRONMENTAL**

IP Rating:	IP66/67
Max. & Min. Temperature (Electronics):	-20 °C to +55 °C (-4 °F to +131 °F)
Flammable Atmosphere Approval:	All Blackbox units must be mounted in a safe area. Compatible with approved dB Transducers
CE Approval:	See EU Declaration of Conformity in the manual
UL Approval:	UL Listed. UL Listed to Canadian Safety Standards. Certificate Number E257330.

## **PERFORMANCE**

Accuracy/Repeatability:	0.25% of the measured range or 6 mm (0.24 in), whichever is greater	
Resolution:	dBMACH3 0.25 mm (0.01 in), dB3 0.5 mm (0.02 in), dB6 and dB10 1 mm (0.04 in), dB15 1.5 mm (0.06 in), dB25 2.5 mm (0.1 in), and dB40 5 mm (0.20 in).	
Min. & Max. Range:	Dependent on Transducer. Nominally 125 mm to 40 m (0.41 ft to 130 ft)	
Echo Processing:	DATEM (Digital Adaptive Tracking of Echo Movement)	
Rate Response:	Fully Adjustable	

#### OUTPUTS

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Analog Output:	Isolated output of 4-20mA or 0-20mA into 1K $\Omega$ (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 2 A at 240 V AC
Display:	2 x 12 alpha numeric

#### **PROGRAMMING**

On-board Programming: Via RS232 using supplied software PC Programming: Via RS232 using supplied software

**Programming Security:** Via Passcode (user selectable and adjustable)

**Promgrammed Data** 

Integrity:

Via non-volatile RAM

Remote Programming: Via RS232 using optional handheld calibrator

#### **SUPPLY**

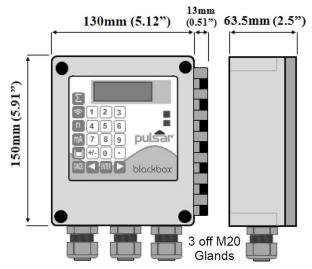
Power Supply: 115 V AC +5% / -10% 50/60 Hz, 230 V AC +5% / -10% 50/60 Hz, 10-28 V DC, 10 W maximum power

(typically 5 W)

**Fuses:** 50 mA at 230 V AC, 100 mA at 115 V AC

#### **REMOTE COMMUNICATIONS**

**Power Supply:** Power supplied via Blackbox RS232 interface



Blackbox Drawing Front and Side



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