

ULTRA 4

Technical Specifications:

Ultra 4 offers the sophistication and advanced features of the rest of the Ultra range in a compact, cost-effective package and useful new features that make it even easier to set up and finetune. Offering 4 alarm or control relays and a multifunctional display while losing none of the easy setup and configuration that has made the Ultra range the natural choice for non-contacting measurement worldwide.



PHYSICAL: MOUNTING OPTION SPECIFIC

Mounting Option:	Standard Wall Mount:	Fascia Mount:
Controller Body Dimensions:	150 mm x 130 mm x 63.5 mm (5.9 in x 5.1 in x 2.5 in)	160 mm x 180 mm x 63 mm (6.3 in x 7.07 in x 2.5 in)
Weight:	Nominal 700 g (1.54 lb)	Nominal 700 g (1.54 lb)
Enclosure Material/Description:	Polycarbonate, flame resistant to UL94-V0	Polycarbonate, flame resistant to UL94-V0
Cable Entry Detail:	3 x M20 glands	
Transducer Cable Extensions:	3-core Screened	
Maximum Separation:	1,000 m (3,280 ft), 500 m (1,640 ft) for dBR16 & dBR8	

ENVIRONMENTAL

IP Rating:	IP67/NEMA 4X (Standard), IP64 (Fascia)
Max. & Min. Temperature (Electronics):	-20 °C to +45 °C (-4 °F to +113 °F)
Flammable Atmosphere Approval:	Safe area compatible with approved approved sensors/transducers. See sensor/transducer spec sheet
UV Rating:	UL746C F1
CE Approval:	See EU Declaration of Conformity
UL Approval:	UL Listed. UL Listed to Canadian Safety Standards. Certificate Number E257330

PERFORMANCE

Accuracy:	±0.25% of the measured range or 6 mm (0.24 in), whichever is greater ±2 mm (0.01 in) for dBR16 mmWAVE RADAR
Resolution:	±0.1% of the measured range or 2 mm (0.08 in), whichever is greater
Max Range:	Dependent on application and transducer (maximum 40 m (131 ft) dB40)
Min Range:	Dependent on application and transducer (minimum zero dBMACH 3)
Rate Response:	Fully Adjustable

PROGRAMMING

On-board Programming:	By integral keypad
PC Programming:	Via Integral RJ11 port on unit, or via SD Card slot
Programming Security:	Via passcode (user selectable and adjustable)
Programmed Storage:	Via non-volatile memory
Data Logging & Removable Storage:	Via Micro SD card slot or internal 10-day totaliser logs (flow only)
SD Card Memory (Included):	8 GB

ECHO PROCESSING

Description: DATEM (Digital Adaptive Tracking of Echo Movement)

Technologies: Ultrasonic and FMCW RADAR

OUTPUTS

Analog Output: Isolated (floating output (to 150 V) of 4-20mA or 0-20mA into 1 k Ω (user programmable and adjustable)

Digital Output: Half Duplex RS232

Volt-free Contacts, Number, & Rating: 3 x SPCO isolated relays, rated at 5A at 250 V AC and 1 Solid state SPNO isolated relay, rated 30 V at 100 mA, suitable for pulse counter applications

Display: Monochrome graphical dot-matrix, 160 x 240 pixels. Fully programmable display options with integral keypad with menu navigation keys. Program/run/test mode indicators

SUPPLY

Power Supply: 100-240 V AC 50/60 Hz. DC 10-28 V

Power Consumption: AC = 20 VA MAX, DC = 10 W max

Fuses, Mains: 1A 'T' 20 mm (0.79 in) ceramic 1500A breaking

Fuses, Transducer: 100 mA barrier type, 4000A breaking

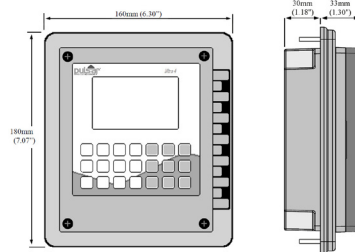
COMMUNICATIONS (OPTIONAL)

Modbus RTU/ASCII: Isolated RS485

Profibus DPV1: Isolated RS485

HART 7: Isolated 4-20mA

DNP3/WITS: Gateway interface (pending)



Ultra 4 fascia mount drawing front and side



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