



MICROFLEX-D ULTRASONIC LEVEL TRANSMITTER

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MICROFLEX-D ULTRASONIC TRANSMITTERS

The Microflex-D from Hycontrol is a compact, non-intrusive, loop-powered ultrasonic level transmitter for continuous measurement of liquids. Microflex-D does not compromise on quality and provides effortless and intuitive operation together with easy and flexible mounting.

Microflex-D's high chemical compatibility and measuring range of either 8 meters (Microflex-D) or 12 meters (Microflex-D ER) makes it appropriate for applications in a wide range of industries.

The Microflex-D emits an ultrasonic pulse which is reflected from the surface of the liquid being measured. The reflected signal is processed using specially developed software to enhance the correct signal and reject false echoes. An automatic sensitivity control allows the unit to dynamically adjust and improve the received echoes to achieve the best possible measurement accuracy.



WIDE RANGE OF LIQUID-BASED APPLICATIONS

- River level
- Wet wells
- Inlet screens
- Tanks
- Sumps
- Pump stations
- Water towers
- Dams
- Basin levels
- Ink levels
- Diesel tanks
- Slurry levels
- Fuel storage
- Tide levels
- Chemical storage

MICROFLEX-D'S KEY FEATURES INCLUDE

- Two-wire 4-20 mA with HART connectivity
- Simple programming via built-in LCD display
- Ranges of up to 12 meters (40 ft)
- Non-contact measurement
- Low overall cost of ownership
- Ingress protection class IP67, NEMA4X
- Adaptive sensitivity control
- Volume linearization with 32-point table
- Automatic temperature compensation
- Chemical-resistant PVDF transducer
- Simple installation



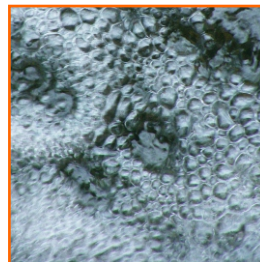
Waste



Oils



Water



Chemicals



Slurry

TECHNICAL DATA

ORDER CODE	MICROFLEX-DB	MICROFLEX-DN	MICROFLEX-DBER	MICROFLEX-DNER
Maximum Range	8 meters (26 ft)		12 meters (40 ft)	
Operating Voltage	7 - 28VDC at the terminal (residual ripple no greater than 100mV)			
Power Consumption	500mW @ 24VDC			
Analog Output	4-20mA modulating output module with HART (Recommended 250 Ohm @ 24VDC)			
Analog Resolution	14 bits			
Communications	4-20mA with HART			
Blanking Distance	250 mm (10")			
Frequency	50 KHz			
Resolution	1 mm (0.04")			
Electronic Accuracy	+/- 0.5% of maximum range		+/- 0.25% of maximum range	
Operating Temperature	-40°C to 60°C / -40°F to 140°F			
Maximum Operating Pressure	-0.5 to 3 bar (0 to 44 psi)			
Automatic Temperature Compensation	Yes			
Beam Angle	7°			
Materials	Transducer: PVDF Housing: Powder Coated Aluminum			
Display	4-line graphic display			
Keypad	4 keys = CAL, RUN, UP, DOWN			
Memory	> 10 Years Data Retention			
Enclosure Sealing	IP67 / Type 4			
Cable Entries	M20 cable glands			
Mounting	2" BSPT Thread	2" NPT Thread	2" BSPT Thread	2" NPT Thread
Typical Weight	1kg (2.2 pounds)			
Volume	Pre-set Common Vessel Shapes 32 Point Programmable Linearization Table (Requires PC Connection with downloadable Vision System II Software)			

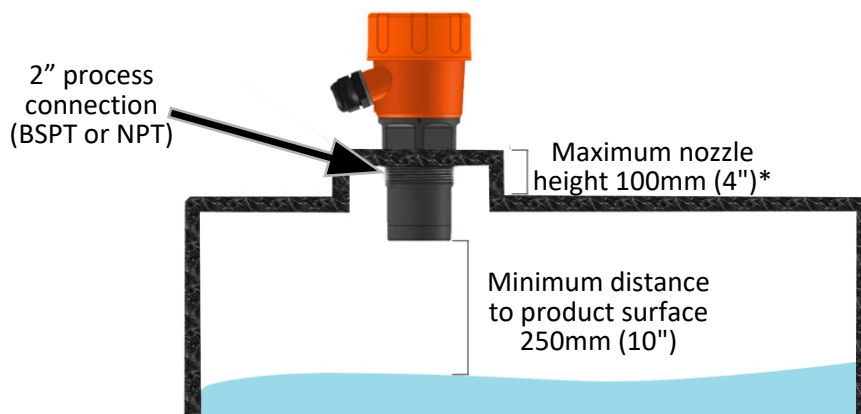
OPTIONAL ACCESSORIES

- 2" ANSI Flange for BSPT threaded units
- 2" ANSI Flange for NPT threaded units
- Minilink-MiniUSB - PC connector for Vision System II

Please contact us for flange order codes

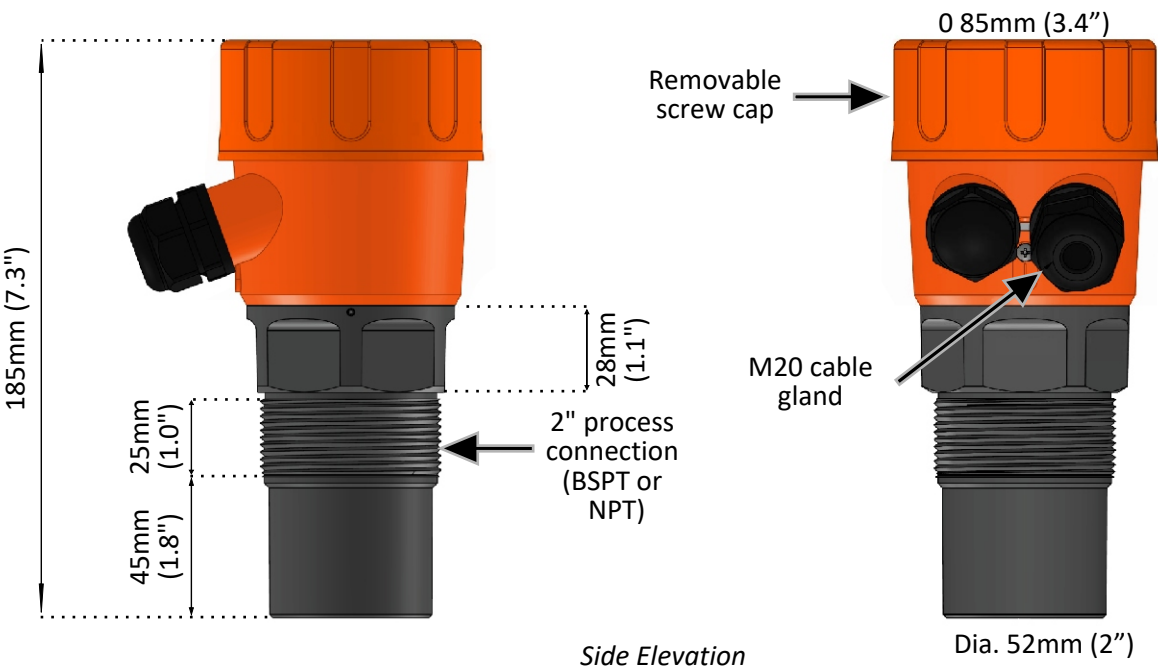


MOUNTING

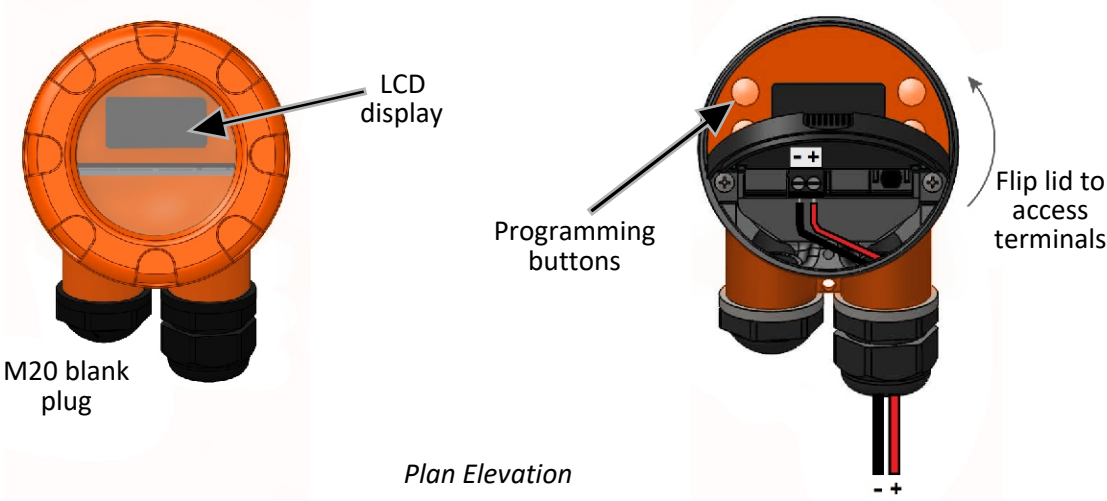


* Please note that nozzle heights exceeding this value may disrupt the transmitted signal and interfere with level measurement.

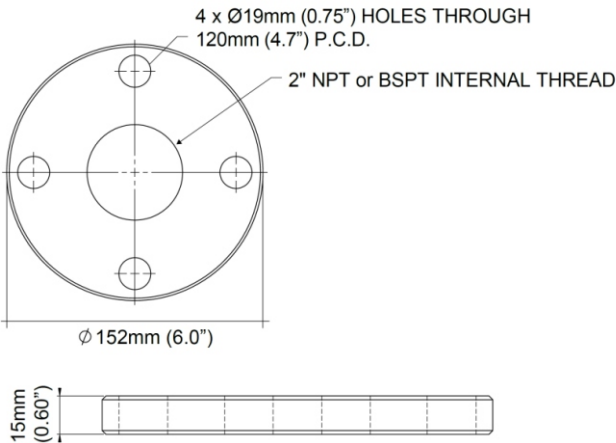
DIMENSIONS



OPTIONAL ACCESSORIES



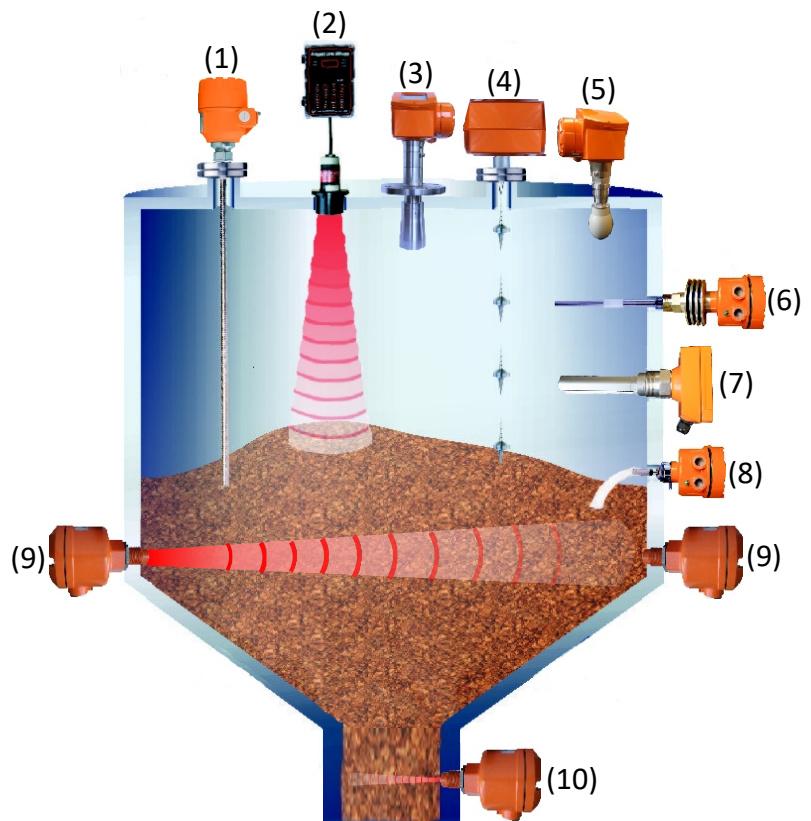
OPTIONAL FLANGE DIMENSIONS



HYCONTROL LEVEL TECHNOLOGIES

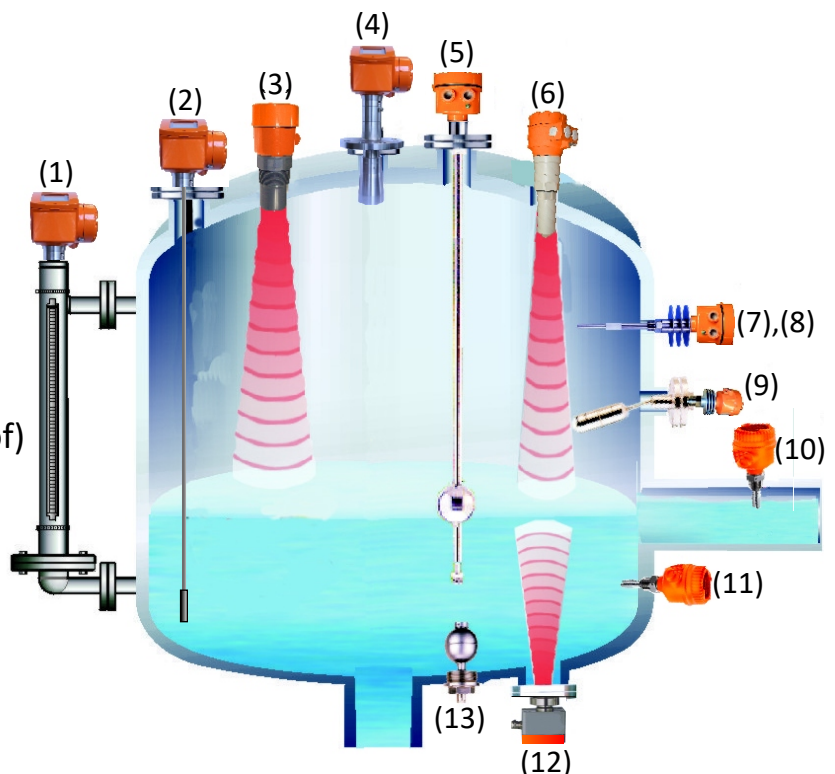
Product Range for Solids:

- (1) TDR Radar for Solids
- (2) 2-Wire Ultrasonic Transmitter
- (3) FMCW 2-Wire Radar (Horn)
- (4) Continuous Servo Level Indicator
- (5) FMCW 2-Wire Radar (Drop)
- (6) Capacitance Level Switch
- (7) Vibrating Probe Level Switch
- (8) Rotating Paddle Level Switch
- (9) Microwave Level Switch
- (10) Doppler Flow Switch



Product Range for Liquids:

- (1) Bypass Level Indicator with Radar
- (2) TDR Radar for Liquids
- (3) 2-Wire Ultrasonic Transmitter
- (4) FMCW 2-Wire Radar (Horn)
- (5) Magnetic Float Switches
- (6) FMCW 2-Wire Radar (Corrosion-Proof)
- (7) Capacitance Level Switch
- (8) RF Admittance Level Switch
- (9) Side Mounting 316 SS Float Switch
- (10) Tuning Fork Level Switch
- (11) Tuning Fork Level Switch
- (12) Ultrasonic Through Wall
- (13) Mini Magnetic Float Level Switch



Contact:

