

# MICROFLEX-C

## TWO WIRE LOOP POWERED TRANSMITTER



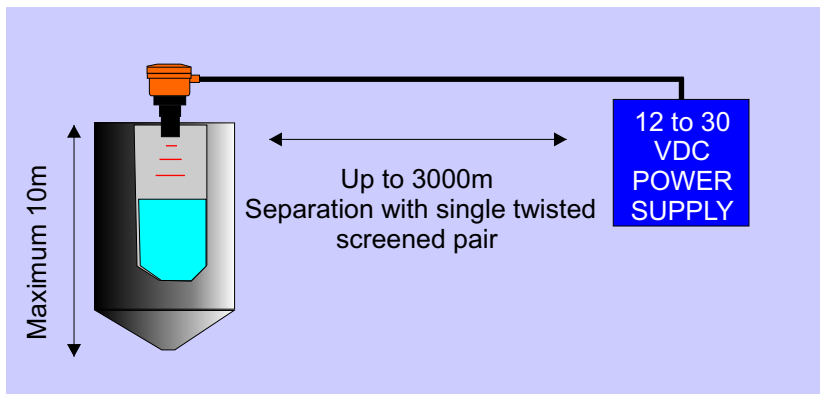
Microflex-C

### FEATURES

- ◆ Two wire loop powered
- ◆ 12 - 30 V DC
- ◆ IP 67 housing
- ◆ Compact size
- ◆ PVDF wetted parts
- ◆ False echo rejection
- ◆ 2" BSPT process connection

### BENEFITS

- ◆ Low cost
- ◆ Simple to program
- ◆ Ease of installation
- ◆ Proven performance
- ◆ Total cost of ownership



### SIMPLICITY

The compact construction coupled with integral LCD display, three push buttons under the lid for security, and just eight parameters to set means that MICROFLEX-C is probably the simplest level transmitter on the market to calibrate and use.

### CHOICE

MICROFLEX-C can be configured for either level or distance in meters, feet or a percentage of span. Empty distance and span can be entered in real values, anywhere within the instruments range.

### SPEED

Conventional loop powered ultrasonic level transmitters are generally slow to respond to changing levels and care needs to be taken when considering their use. MICROFLEX-C can track level changes as fast as 10 meters per minute, without risk of losing signal.

### APPLICATION

ATEX hazardous area approved units are available for use in Zone Zero environments. The transducer is manufactured in PVDF and is ideal for use in corrosive applications.

### PROVEN PERFORMANCE

Using a combination of unique echo extraction routines, which have proven so successful in thousands of ultrasonic level measuring instruments supplied world wide, we can ensure that MICROFLEX-C will provide the level of performance expected from one of the leaders in ultrasonic level technology.

### FALSE ECHO REJECTION

This is further enhanced by using the selectable FER function on the CER/CIS which enables the instrument to identify four fixed obstructions within the path of the Ultrasonic beam, memorise their position and ignore them during the measuring process.

## TECHNICAL DATA SHEET

### SPECIFICATION

	<b>MICROFLEX-C</b>	<b>MICROFLEX-C ER</b>	<b>MICROFLEX-C IS</b>
<b>Functionality</b>	Level or Distance	Level, Distance, Volume, Flow	Level, Distance, Volume, Flow
<b>Measuring Range</b>	0.3m to 8m/1ft to 26ft	0.3m to 11m / 1.5ft to 36ft	0.3m to 11m / 1.5ft to 36ft
<b>Environmental protection</b>	IP67 - TYPE 4	IP67 TYPE 4	IP67 TYPE 4
<b>Housing material</b>	Glass Filled Nylon (GFN)	Glass Filled Nylon (GFN)	Glass Filled Nylon (GFN)
<b>Power supply</b>	12 to 30 V DC - Loop powered	12 to 30 VDC Loop powered	12 to 30 VDC Loop powered
<b>Analogue output</b>	4-20mA	4-20mA	4-20mA
<b>Load impedance</b>	Maximum 750 Ohms	Maximum 750 Ohms	Maximum 750 Ohms
<b>Communication Protocol</b>	-	HART	HART
<b>Relay outputs</b>	-	2 x SPST 1A @ 24 VDC	-
<b>Display</b>	Integral four digit LCD	Integral four digit LCD	Integral four digit LCD
<b>Electrical entry</b>	2 x M20 x 1.5mm	2 x M20 x 1.5mm	2 x M20 x 1.5mm
<b>Transducer material</b>	PVDF	PVDF	PVDF
<b>Process connection</b>	2" BSPT / NPT	2" BSPT / NPT	2" BSPT / NPT
<b>Resolution</b>	Better than 1mm / 1/16"	Better than 1mm / 1/16"	Better than 1mm / 1/16"
<b>Accuracy (of measured range)</b>	<1.0m +/- 5mm. > 1.0m +/- 0.5% *	<1.0m +/- 2.5mm. > 1.0m/3.3ft +/- 0.25% *	<1.0m +/- 2.5mm. > 1.0m/3.3ft +/- 0.25% *
<b>Damping</b>	1- 99 seconds	1- 99 seconds	1- 99 seconds
<b>Ambient temperature</b>	-20°C to 70°C / -40°F to 158°F	-40°C to 60°C / -40°F to 140°F	-40°C to 60°C / -40°F to 140°F
<b>Operating temperature</b>	-20°C to 70°C / -40°F to 145°F	-30°C to 70°C / -22°F to 158°F	-30°C to 70°C / -22°F to 158°F
<b>Operating pressure (max)</b>	-0.25 to 3 bar / -3.6psi to 43psi max (20°C)	-0.25 to 3 bar / -3.6psi to 43psi max (20°C)	-0.25 to 3 bar / -3.6psi to 43psi max (20°C)
<b>Beam angle</b>	+/- 6 degrees (3db)	+/- 6 degrees (3db)	+/- 6 degrees (3db)
<b>Electromagnetic compatibility</b>	EN50081-1 & EN50082-2	EN50081-1 & EN50082-2	EN50081-1 & EN50082-2
<b>Maximum cable run</b>	3000m / 1.86 miles	3000m / 1.86 miles	3000m / 1.86 miles
<b>Cable specification</b>	Single twisted screened pair	Single twisted screened pair	Single twisted screened pair
<b>Weight</b>	0.9kg / 2 lbs	1kg / 2.2 lbs	1.4kg / 3.1 lbs
<b>Hazardous Area Approval</b>	-	-	ATEX II 1 G EExia II T6 Intrinsically Safe Zone 0

\* Accuracy is measured as a % of the measured distance Ref Conditions 20°C, Press 1013mbar, Relative Humidity 50%

Hycontrol's policy is one of continuous development, consequently the right is reserved to modify these specifications without notice.

