

# MICROFLEX-C

COMPACT TWO WIRE LOOP POWERED LIQUID LEVEL TRANSMITTER



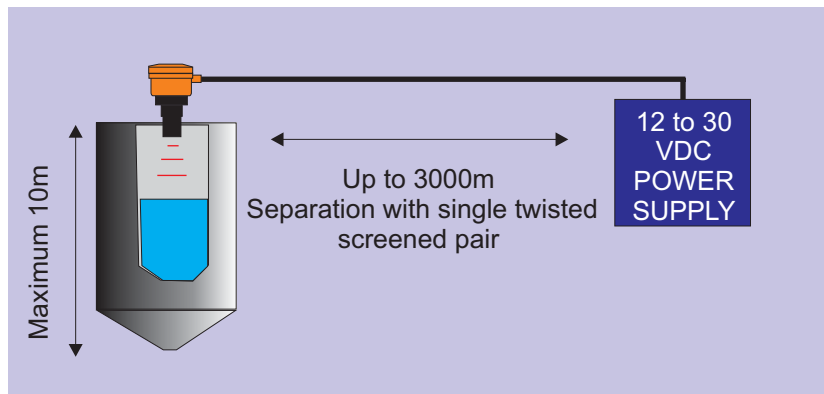
Microflex-C

## 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 which enables the instrument to identify two fixed obstructions within the path of the Ultrasonic beam, memorise their position and ignore them during the measuring process.

# MICROFLEX-C

## 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	0.45m to 10m / 1.5ft to 36ft	0.45m to 10m / 1.5ft to 36ft
<b>Environmental protection</b>	IP67 - NEMA 4	IP67 NEMA 4	IP67 NEMA 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 V DC - Loop powered	12 to 30 V DC - 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>	850g / 2 lbs	850g / 2 lbs	850g / 2 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

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

