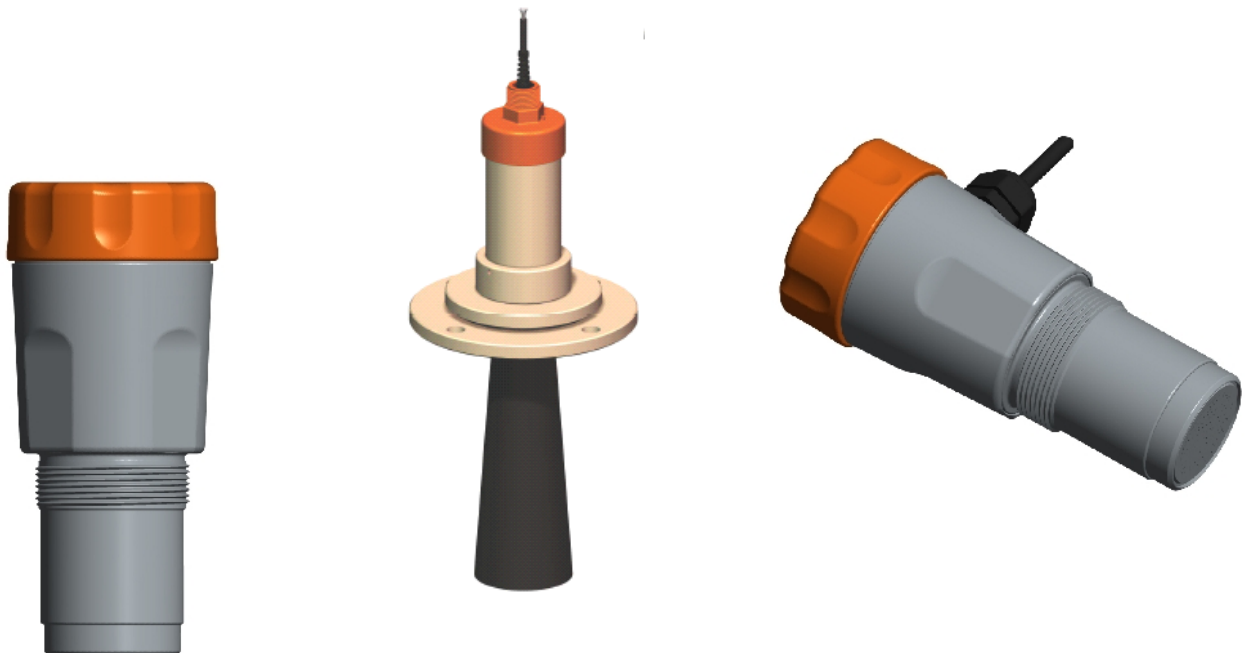


# ***MICROFLEX LR MI***

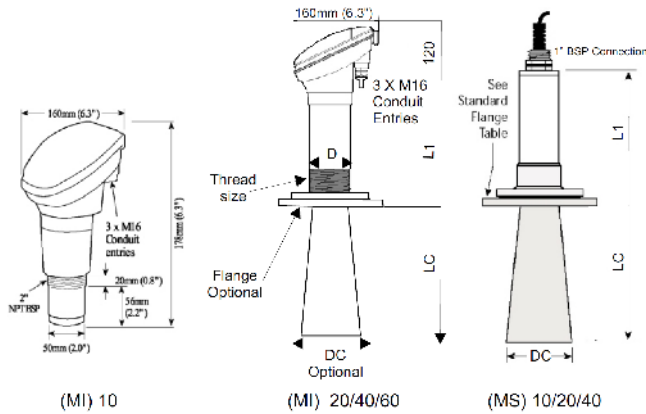


# ***MICROFLEX LR MS***





	<b>Microflex LR (MI)</b>	<b>Microflex LR (MS)</b>
	2- 2,3,4- /	2- 3-
	60	60
( )	0,3	0,3
	4-20 750	4-20 750
	12-30 90-256	10-25
	2 SPDT .5 240	1 SPDT 3-
	1 20 4 20 60	1 20 4 20 60
	±0,25%	±0,25%
	-40° 80°	-40° 80°
	-40° 80°	-40° 80°
	2- 8	
	IP 67	IP 68
	4	
	2" NPT BSP ANSI DIN JIS	2" NPT BSP ANSI DIN JIS
	2 15	2 15
	3 16 ( )	
	2	2
	Modbus/ HART GSM/CDMA Vision System II Hycontrol GSM ( 32 )	Modbus GSM/CDMA Vision System II Hycontrol GSM ( 32 )
	ATEX EExia	ATEX EExm



**Integral Transmitter (MI)**

Range Metres	L1	LC Optional	D	DC Optional	Thread Size	Flange Optional
10	140	-	50	-	2"	-
20	185	258	75	98	3"	4"
40	360	413	89	263	3.5"	10"
60	672	413	89	263	-	10"

**Blind Transmitter (MS)**

Range Metres	L1	LC Optional	D	DC Optional	Thread Size	Flange Optional
10	185	-	50	-	2"	-
20	208	258	75	98	3"	4"
40	537	413	89	263	3.5"	10"

Flange Options: ANSI, DIN or JIS

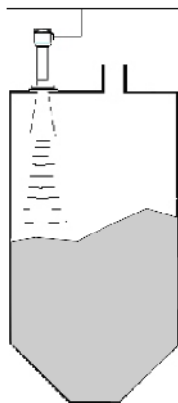
**(MI)**

	L1	LC	D	DC		
10	140	-	50	-	2"	-
20	185	258	75	98	3"	4"
40	360	413	89	263	3,5"	10"
60	672	413	89	263	-	10"

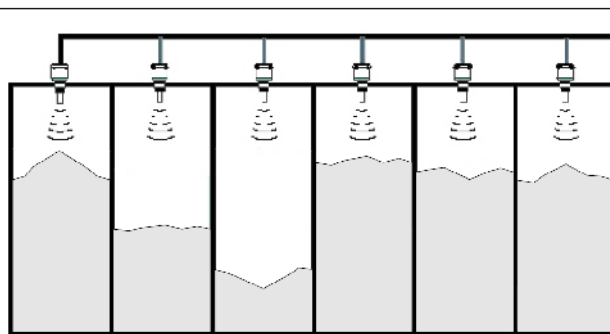
**(MS)**

	L1	LC	D	DC		
10	185	-	50	-	2"	-
20	208	258	75	98	3"	4"
40	537	413	89	263	3,5»	10»

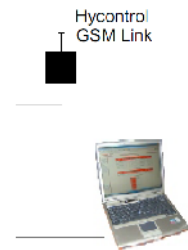
: ANSI, DIN JIS



Solids Silos



Screenhouse, Tank Forms, Grain Terminals.  
Multiple Tank Applications



Laptop or PC Communications or PLC / DCS with MODBUS RTU Port  
Vision System II Software for Inventory Monitoring on PC

Modbus

Vision System II

Vision System II –

Microflex LR  
(HGSML).

Vision System II

Hycontrol

Hycontrol GSM  
GSM

Microflex LR

Modbus

Vision System II,

9

256

( 2 )

Microflex LR MS

Microflex LR MS,

Modbus,

PLC

- 
- 
- 
-

MODEL	Microflex LR Ultrasonic Level Transmitters	
<b>M12</b>	Integral 2 wire transmitter with display and no relays (Select output type in additional communications)	
<b>M13</b>	Integral 2, 3, & 4 wire transmitter with display and 2 relays	
<b>Power Supply</b>		
<b>B</b>	12-30V DC	M12 or M13
<b>U</b>	Universal power supply 90-260V AC / 24V DC	M13 only
<b>Measuring Range - Transducer Frequency</b>		
<b>10</b>	30kHz 10m max	
<b>20</b>	20kHz 20m max	
<b>40</b>	10kHz 40m max	
<b>60</b>	5kHz 60m max	
<b>Process Temperature - Transducer Facing Material</b>		
<b>S</b>	Standard Temperature ~ Dry product ~ Polyolefin face, 10 & 5KHz	
<b>T</b>	Standard temperature ~ Wet atmosphere ~ Teflon face, 30 & 20KHz	
<b>Transducer Housing Material</b>		
<b>4</b>	Polypropylene	20, 10 & 5KHz
<b>6</b>	Teflon	30KHz
<b>Process Connection</b>		
<b>FA</b>	ANSI Flange	
<b>FD</b>	DIN Flange	
<b>FJ</b>	JSI Flange	
<b>SB</b>	BSP	30KHz only
<b>SN</b>	NPT	30KHz only
<b>XX</b>	Not required	
<b>Process Connection Size</b>		
<b>02</b>	2 inch thread	30KHz only
<b>04</b>	4" Flange only	Standard on 20KHz
<b>06</b>	6" Flange only	
<b>08</b>	8" Flange only	
<b>10</b>	10" Flange only	Standard on 10KHz & 5KHz
<b>XX</b>	Not required	
<b>Flange Material</b>		
<b>4</b>	Polypropylene	
<b>6</b>	Teflon	
<b>7</b>	Carbon Fibre	
<b>X</b>	Not required	
<b>Z</b>	Special	
<b>Cone</b>		
<b>XX</b>	Not required	
<b>04</b>	4"	
<b>10</b>	10"	
<b>Cone Material</b>		
<b>4</b>	Polypropylene	
<b>6</b>	Teflon	
<b>7</b>	Carbon Fibre	
<b>8</b>	Polyurethane	
<b>X</b>	Not required	
<b>Z</b>	Special	
<b>Approvals</b>		
<b>X</b>	Without	
<b>A</b>	ATEX EEx ia* M12 only not M13	
<b>D</b>	ATEX DIP* M12 & M13	
<b>Additional Communications</b>		
<b>S</b>	Switch 2 relays	M13 only
<b>A</b>	4/20 mA only	M12 or M13
<b>M</b>	Modbus 4/20mA	M13 only
<b>H</b>	HART	M12 only
<b>I</b>	HART isolated	M13 only
<b>W</b>	Modbus only	M13 only
<b>X</b>	No additional comms	
<b>A</b>	Typical Part Number	

\*For ATEX models refer to ATEX Safety & Operating Instructions Manual.

(MS)

<b>MODEL</b>	<b>Microflex LR Smart Transmitters</b>											
<b>MSA</b>	With 2 wire loop powered, 4/20mA output & PC comms. 4 core+shld											
<b>MSB</b>	With 4/20mA output, 1 relay, and PCcomms. 8 core+shld											
<b>MSC</b>	With Modbus and 1 Relay. 6core+ shld											
<b>MSD</b>	With Modbus only. 4 core+shld											
<b>Power Supply</b>												
<b>A</b>	10-25V DC											
<b>Measuring Range - Transducer Frequency</b>												
<b>10</b>	30KHz 10m max											
<b>20</b>	20KHz 20m max											
<b>40</b>	10KHz 40m max											
<b>60</b>	5KHz 60m max											
<b>Process Temperature - Transducer Facing Material</b>												
<b>S</b>	Standard Temperature ~ Dry Product ~ 10 & 5KHz Polyolefin											
<b>T</b>	Standard temperature ~ Wet atmosphere ~ Teflon face, 30 and 20KHz											
<b>Transducer Housing Material</b>												
<b>4</b>	Polypropylene - 20, 10 & 5KHz											
<b>6</b>	Teflon - 30KHz											
<b>Process Connection</b>												
<b>FA</b>	ANSI Flange											
<b>FD</b>	DIN Flange											
<b>FJ</b>	JSI Flange											
<b>SB</b>	BSP 30KHz only											
<b>SN</b>	NPT 30KHz only											
<b>XX</b>	Not Required											
<b>Process Connection Size</b>												
<b>02</b>	2 inch thread										30KHz only	
<b>04</b>	4" Flange only										Standard on 20KHz	
<b>06</b>	6" Flange only											
<b>08</b>	8" Flange only											
<b>10</b>	10" Flange only										Standard on 10KHz & 5KHz	
<b>XX</b>	Not reqd											
<b>Z</b>	Special											
<b>Flange Material</b>												
<b>4</b>	Polypropylene											
<b>6</b>	Teflon											
<b>7</b>	Carbon Fibre											
<b>X</b>	Not required											
<b>Z</b>	Special											
<b>Cone</b>												
<b>XX</b>	Not required											
<b>04</b>	4" Standard on 20KHz											
<b>10</b>	10" Standard on 10KHz & 5KHz											
<b>Cone Material</b>												
<b>4</b>	Polypropylene											
<b>6</b>	Teflon											
<b>7</b>	Carbon Fibre											
<b>8</b>	Polyurethane											
<b>X</b>	Not required											
<b>Z</b>	Special											
<b>Approvals</b>												
<b>X</b>	Without											
<b>M</b>	ATEX EExm *											
<b>D</b>	ATEX DIP *											
<b>Connection Electrical</b>												
<b>C</b>	IP68 with 6 Mtr Cable											
<b>Sxx</b>	Designates Spec, Cable or Plug											
<b>MSA</b>	<b>A</b>	<b>10</b>	<b>T</b>	<b>6</b>	<b>SB</b>	<b>XX</b>	<b>X</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>C</b>	Typical Part Number