

## Endress+Hauser Micropilot FMR10 and FMR20 Radar Transmitters



People for Process Automation

- Bluetooth® enabled for easy wireless configuration
- Easy setup with three main parameters for most applications
- PVDF body resists harsh environmental conditions

Micropilot FMR10 and FMR20 non-contact radar level sensors measure liquids, pastes and slurries in situations where ultrasonic systems cannot. Radar is unaffected by air turbulence, pressure, temperature, gas vapors, light mist, light foam and other conditions that can make level measurement difficult.

The Micropilot series is loaded with features, including 2-wire loop power, 4-20 mA output, and 32-point linearization (great for open channel flow measurement and complicated tank sizes). It has a 26 GHz horn antenna that takes continuous level measurements.

Setup and operation are simple—no pushbuttons or remote displays are needed for startup or operation. Simply link your Bluetooth-enabled smartphone or tablet to the Micropilot to interact with it from up to 33 feet away (requires free download of the SmartBlue app for iOS or Android). The app also allows you to read curve data and other diagnostics and email it directly from your device. For security, the app is password protected and you can disable Micropilot's Bluetooth operation as needed.



Interact wirelessly with Bluetooth communication

Choose from the more compact FMR10 or the more robust FMR20. Add the **optional flooding protection tube attachment** to narrow the radar angle beam, and in the case of the FMR10 increase the measuring range to 26.25 feet. The tube is required for applications without closed vessels or where there is a risk of flooding the sensor.



28037

28053

	28037	28051	28053
<b>Mfr #:</b>	FMR10	FMR20	FMR20
<b>Range:</b>	16' (26.25' w/ optional flooding protection tube installed)	33'	66'
<b>Accuracy:</b>	±0.2"	±0.08"	±0.08"
<b>Frequency:</b>	26 GHz K-band	26 GHz K-band	26 GHz K-band
<b>Temperature:</b>	-40 to 140°F	-40 to 176°F	-40 to 176°F
<b>Pressure:</b>	-14 to 43 psi	-14 to 43 psi	-14 to 43 psi
<b>Beam angle:</b>	30° (12° w/ optional flooding protection tube installed)	30° (12° w/ optional flooding protection tube installed)	12°
<b>Signal output:</b>	2 wire, 4-20 mA	2 wire, 4-20 mA	2 wire, 4-20 mA
<b>Communication:</b>	Bluetooth LE	Bluetooth LE	Bluetooth LE
<b>Supply voltage:</b>	10.5-30 VDC	10.5-30 VDC	10.5-30 VDC
<b>Cable:</b>	32'L, PVC insulated	32'L, PVC insulated	32'L, PVC insulated
<b>Wetted materials:</b>	PVDF, EPDM, PBT plastic	PVDF, EPDM, PBT plastic	PVDF, EPDM, PBT plastic
<b>Process connection:</b>	G1 threads (top) & G1½ (bottom)	G1 threads (top) & G1½ (bottom)	G1 threads (top)
<b>Dimensions:</b>	2.95"Dia x 6.7"H	2.95"Dia x 6.7"H	4.53"Dia x 9.28"H
<b>Approvals:</b>	CSA, IP68/NEMA 6P	CSA, IP68/NEMA 6P	CSA, IP68/NEMA 6P

### Micropilot Radar Level Transmitters

MFR #	RANGE	ANTENNA SIZE	STOCK #	EACH
FMR10	16 feet	1.5"	28037	\$ 611.00
FMR20	33 feet	1.5"	28051	925.73
FMR20	66 feet	3"	28053	965.24

### Accessories

DESCRIPTION	STOCK #	EACH
Flooding Protection Tube for FMR10 and FMR20 w/ 1.5" Antenna	28067	\$ 87.25
Flooding Protection Tube for FMR20 w/ 3" Antenna	28073	87.25
Mounting Bracket for All FMR Models, 316 SS	28075	74.66
Overhead/Ceiling Mount Bracket for all FMR Models, 316 SS	28079	72.81
Universal Mounting Nut G1½ for FMR10 & FMR20 w/ 1.5" Antenna	28081	31.48
24-VDC Power Supply, 15 Watts, 0.6A	74178	47.95
1-Channel Surge Protection Barrier	17701	145.95

See page 938 for more **Loop-Powered Displays.**