

Microwave meter

Series MFP

Analog output

High precision

Liquids from oil to water

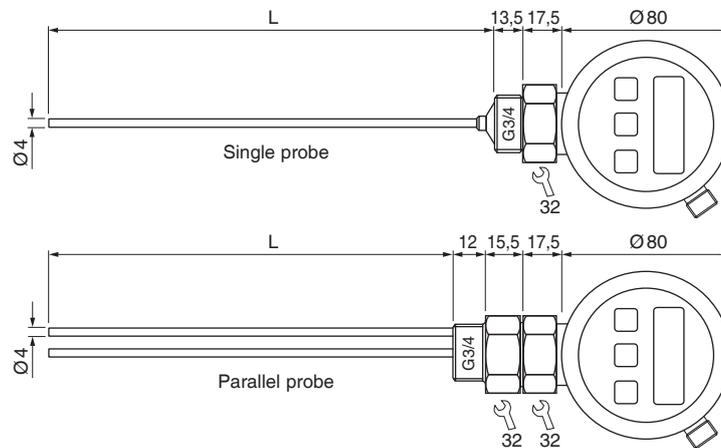
Guided Microwave



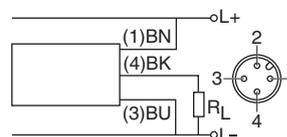
Design

DC Analog • G3/4

Dimensions



Design	Single probe	Parallel probe	Sensor length The total length L of the sensors is specified by appending "xxx" to the type. xxx: Length in cm
Output	4...20 mA, linear	4...20 mA, linear	
ID-No.	P...	P...	
Type-sensorenlength L	MFP 075 GA-LMxxx	MFP 075 GA-LPxxx	
Supply voltage [V]	20...27 DC	20...27 DC	
Current consumption [mA]	< 45	< 45	
Current output [mA]	4...20	4...20	
Load resistance R _L [Ω]	200...500	200...500	
Reverse protection	•	•	
Precision [mm]	5	5	
Transition zone [mm]	top: 25, bottom: 15	top: 25, bottom: 25	
Ambient temperature [°C]	-0...+70	-0...+70	
Medium temperature [°C]	-0...+80	-0...+80	
Sensitivity [ε _r]	≥ 20	≥ 2	
Protection [EN 60529]	IP 67	IP 67	
Housing material	Aluminium		
Material	AISI 316 Ti, PTFE; only Parallel probe POM		
Sealing material	NBR, AFM 34, different material on request		
Compressive strength [bar]	6 (25 °C)		
Connection	M12 connector		
* Depending on the installation conditions, deviations from the specified measuring accuracy can occur in this area.			Note: For single probe installation rules have to be observed.
Accessories	Connecting cable SLG 3..., SLW 3..., see page 2.42		



Microwave meter

Series MFP

2x PNP output

High precision

Liquids from oil to water

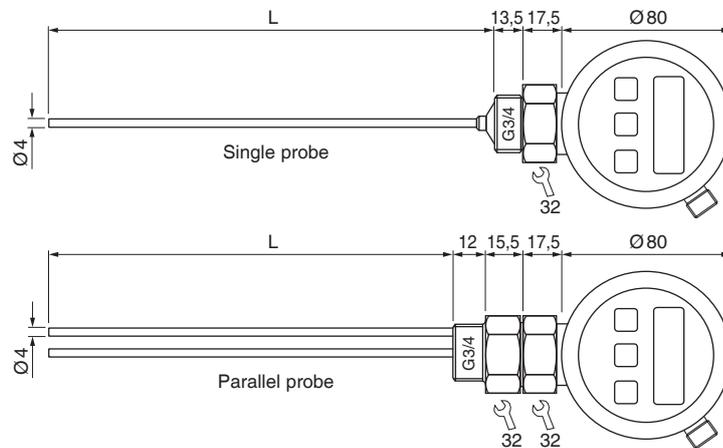
Guided Microwave



Design

DC PNP • G3/4

Dimensions



Design	Single probe	Parallel probe	Sensor length The total length L of the sensors is specified by appending "xxx" to the type. xxx: Length in cm Preferred lengths single probe ID-No. 300 mm: LM030 P21222 500 mm: LM050 P21204 800 mm: LM080 P21205 Preferred lengths parallel probe ID-No. 300 mm: LP030 P21206 500 mm: LP050 P21207 800 mm: LP080 P21223
Output	2x PNP	NO NC programmable	
ID-No.	P...	P...	
Type-sensorelength L	MFP 075 GPP-LMxxx	MFP 075 GPP-LPxxx	
Supply voltage [V]	20...27 DC	20...27 DC	
Current consumption [mA]	< 45	< 45	
Switching current [mA]	200	200	
Reverse protection	•	•	
Precision [mm]	5	5	
Transition zone [mm]	top: 25, bottom: 15	top: 25, bottom: 25	
Ambient temperature [°C]	0...+70	0...+70	
Medium temperature [°C]	0...+80	0...+80	
Sensitivity [εr]	≥ 20	≥ 2	
Protection [EN 60529]	IP 67	IP 67	
Housing material	Aluminium		
Material	AISI 316 Ti, PTFE; only Parallel probe POM		
Sealing material	NBR, AFM 34, different material on request		
Compressive strength [bar]	6 (25 °C)		
Connection	M12 connector		
* Depending on the installation conditions, deviations from the specified measuring accuracy can occur in this area.			

Accessories

Connecting cable SLG 3..., SLW 3..., see page 2.42

Microwave meter

Series MFP

Analog output or
2x PNP output

High precision
Easy cleaning

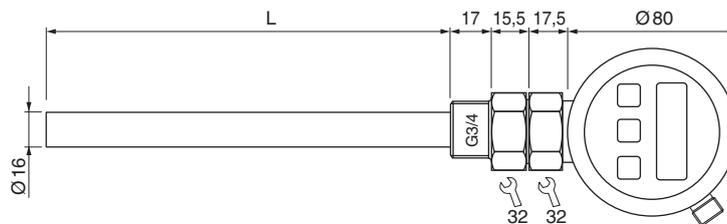
Liquids from oil to water

Guided Microwave



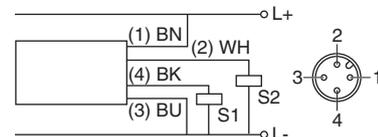
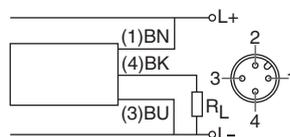
Design DC Analog / DC PNP • G3/4

Dimensions



Design	DC Analog / DC PNP • G3/4		
Output	Koax probe 4...20 mA, linear 	Koax probe 2x PNP, programmable 	
ID-No.	P.....	P.....	
Type-sensorenlength L	MFP 075 GA-LKxxx	MFP 075 GPP-LKxxx	Sensor length The total length L of the sensor is specified by appending "xxx" to the type. xxx: Length in cm
Supply voltage [V]	20...27 DC	20...27 DC	Preferred lengths GA
Current consumption [mA]	< 45	< 45	300 mm: LK030
Current output [mA]	4...20	-	500 mm: LK050
Load resistance R _L [Ω]	200...500	-	800 mm: LK080
Switching current [mA]	-	200	Preferred lengths GPP
Reverse protection [mm]	•	•	300 mm: LK030
Precision [mm]	5	5	500 mm: LK050
Transition zone [mm]	top: 25, bottom: 25	top: 25, bottom: 25	800 mm: LK080
Ambient temperature [°C]	-0...+70	-0...+70	ID-No.
Medium temperature [°C]	-0...+80	-0...+80	300 mm: P21217
Sensitivity [ε _r]	≥ 2	≥ 2	500 mm: P21218
Protection [EN 60529]	IP 67	IP 67	800 mm: P21219
Housing material	Aluminium		ID-No.
Material	AISI 316 Ti, PTFE, POM		300 mm: P21214
Sealing material	NBR, AFM 34, different material on request		500 mm: P21215
Compressive strength [bar]	6 (25 °C)		800 mm: P21216
Connection	M12 connector		

* Depending on the installation conditions, deviations from the specified measuring accuracy can occur in this area.



Accessories Connecting cable SLG / SLW 3..., SLG / SLW 4..., see page 2.42