

Radar Level Meter YW04-01

Features

The 80GHz radar level meter series of products are the Frequency Modulated Continuous Wave (FMCW) radar products operating at 76 - 81 GHz and supporting both 4-wire and 2-wire applications. The products are available in several models with the measuring range up to 120m.



Specifications

Transmitting frequency	76GHz ~ 81GHz
Measurement range	10m; 20m; 30m; 60m; 120m
Measurement accuracy	±1mm
Measurement interval	Up to 100ms
Beam angle	3°/8°/20°
Dielectric constant	≥2
Supply range	12 ~ 28.0 VDC
Communication	MODBUS; HART
Signal output	4 ~ 20mA or RS-485
Fault output	3.8mA, 4mA, 20mA, 21mA, hold
Field operation and programming	128 × 64 dot matrix display/4 keys; configurable software for PC setup
Process temperature and humidity	T0: -40~85°C/humidity≤95%RH; T1: -40~200°C; T2:-40~500°C;T3:-40~1000°C
Housing material	Aluminum alloy, stainless steel
Process connection type	Pipe threads/universal flanges/anti-corrosion flanges/sanitary chucks/quartz isolation flanges
Process pressure	-0.1 ~ 2MPa
Product size	Ø100*270mm
Cable entry	M20*1.5
Recommended cables	AWG18 or 0.75mm ²
Protection grade	IP67
Explosion-proof grade	Ex-ia-IIC-T6
Installation method	Threaded or flanged

Note: The measurement blind spot depends on the antenna selected and the reflective properties of the object to be measured. Laboratory blind spot tests are based on water or metal plates.