

PALM TREE

ENGINEERING PRODUCTS

PRIVATE LIMITED

PRODUCT CATALOGUE



"PROCESS MEASUREMENT & CONTROL SPECIALISTS"

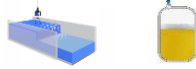


PTER800W 80GHz Radar Level Transmitter

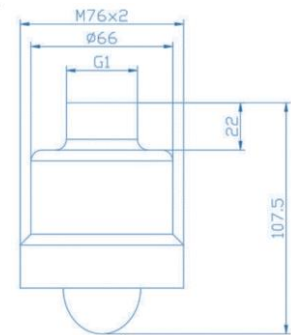
The PTE-R800W is the ideal sensor for non-contact level measurement in simple applications. Weighs only 750g, it is particularly suitable for open channel application: exp water/wastewater field, rain basins, flume, dam level monitoring. Meanwhile the sensors could be applied on some liquid tanks or containers.



Specification

Model	PTER800W
Product Type	FMCW Radar Level Transmitter
Application	 *Open channel water measurement *Standard liquid measurement
Frequency	77GHz-81GHz
Measurement Range	Liquid: 0.2m-15m (0.6 ft – 49 ft)
Accuracy	±2mm for liquid
Beam Angle	±5°
Material	PP (polypropylene)
Process Connection	Thread and flange (customized)
Process Temperature	-20°C to 60°C (-20 to +140°F)
Process Pressure	Normal atmospheric pressure
Signal output	4-20mA / RS485/ Bluetooth
Power	Two-wire DC 24V (22V~30V)
Protection	IP67
Size	76mm*107mm, weight 750g

- High frequency 80GHz, More Focus.
- Accuracy ±2 mm(liquid)
- Measuring range up to 15m
- Small emitting angle ±5°.
- Thread connection, customized flange.



Dimension

PTE-R800 Model Selection

PTE-R800 80GHz Radar Level Transmitter (PP housing, no display)

Code	Medium Type	Code	Measuring Range(m)	Code	Connection	Code	Temperature	Code	Cable entry	Code	Electronics
W	Water/liquid	0.2~15	8~15	G	G Thread	N	-20 - 60°C	M	M20×1.5(F)	T	Two-wire 4...20mA
				F	Flange					M	Modbus
										B	Bluetooth wireless

PTE-R800

PTER800N 80GHz Radar Level Transmitter

The PTE-R800N is an 80 GHz FMCW radar transmitter for continuous level measurement of Liquid, Simple Solid, and open water application.

- High frequency 80GHz, More Focus.
- Accuracy ± 2 mm(liquid), ± 5 mm(solid)
- PTFE sealed antenna, not affected by temperature, condensate water.
- Small emitting angle $\pm 3^\circ$.
- G Thread connection, customized thread/flange.



Customized Flange

Specification

Model	PTER800N
Product Type	FMCW Radar Level Transmitter
Application	* Simple liquid measurement (exp: water, up to 30m) * Standard liquid measurement (exp: Corrosive chemical) * Simple solid measurement
Frequency	77GHz-81GHz
Measurement Range	Liquid: 0.2-30m (0.6 ft – 100 ft) *Solid: 0.2-15m (0.6 ft – 50 ft), depends on solid medium
Accuracy	± 2 mm for liquid ± 5 mm for solid
Beam Angle	$\pm 3^\circ$
Antenna Material	SS 304/Sealed PTFE
Process Connection	Default G2 Thread; Thread and flange is customized
Process Temperature	-24°C to 60°C (-40 to +140°F)
Process Pressure	Normal atmospheric pressure
Signal output	4-20mA / RS485(Modbus – RTU)
Power	Two-wire DC 24V (22V~30V)
Explosion-Proof	EX II CT6Gb