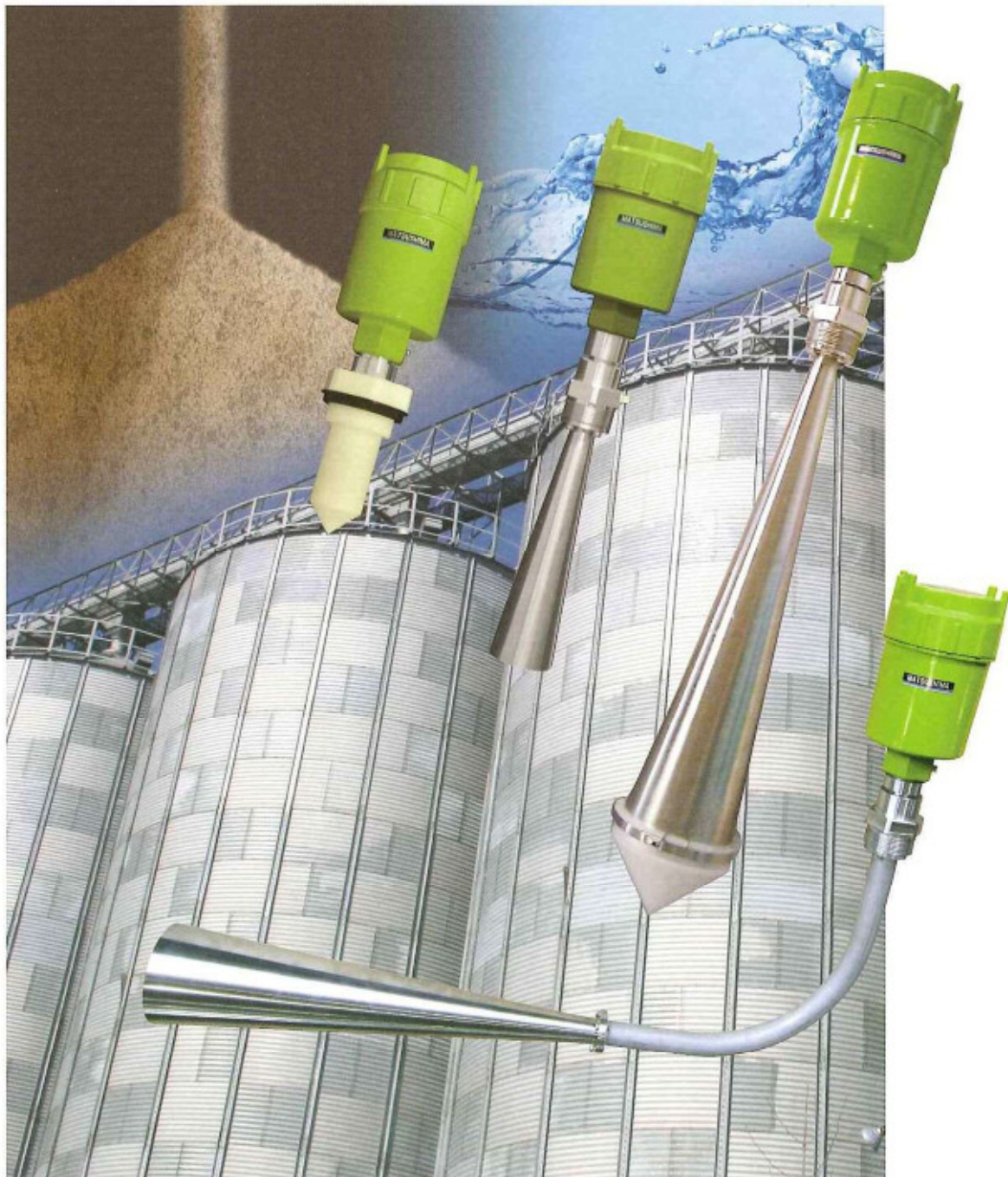


For continuous measurement of powder, solid and liquid

Radar Level Transmitter

MWLM-PR26 series



Highest global standard measuring performance

Compact body with higher performance covering all kinds of fine powder, bulk solids and liquid applications. Excellent performance under high temperature, high pressure, corrosive, steam, airborne dust, turbulence conditions.

Long range
70m

Competitive price

Two-wire
HART
communication

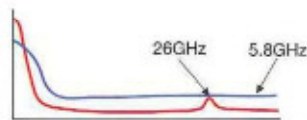
Compact & lightweight

Long experience bulk solids measuring know-how integrated

Considerable experience over 60 years for bulk solids applications in steel, cement, mining, power, chemical, etc, as well as 40 years of experience with radar measurement, finally integrated in the compact body.

Accurate and reliable measurement by excellent signal conditioning

Provides accurate and reliable measurement under severe environmental conditions by means of excellent S/N (Signal Noise) ratio, furthermore, self-diagnosis function tells immediately on failure.



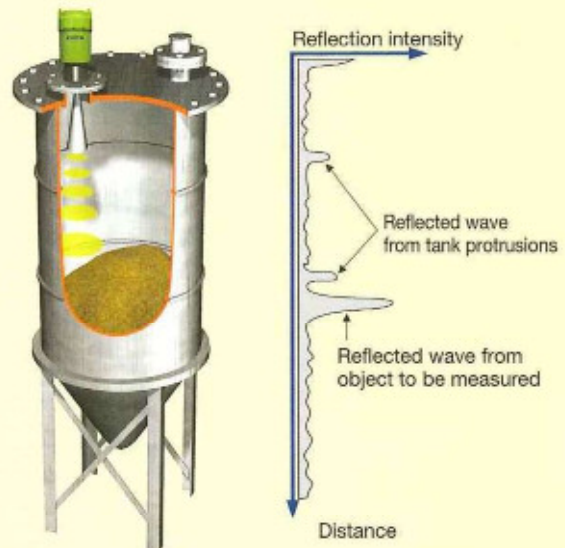
Comparison with our conventional product

Easy operation

Simple and precise operation possible. Site maintenance with simple hand communicator GRAPHIC COM2. Remote operation with customer friendly PC software.

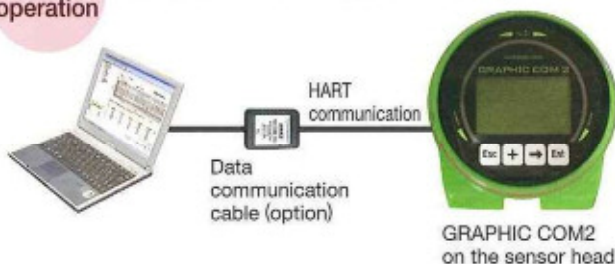
Principle of Measurement

The microwave level meter measures the time from when the level meter emits pulse radar waves from the antenna to when the waves (echoes) reflected from the object to be measured return to the meter, which is then calculated into a distance.



Remote operation

The PC with adjustment software allows easy operation for complex parameter settings.



Software Features

- Real time indication for measurement situation
- Make adjustment
- Check waveforms while monitoring and store the data
- Record trends

Languages:
Japanese, English, Chinese, and Korean

Local operation

The GRAPHIC COM2, a detachable LCD adjuster, has a liquid crystal display with high-visibility. You can see waveforms in real time while monitoring, and you can adjust settings if needed.



LCD Adjustment unit "GRAPHIC COM2" (option)

Languages:
Japanese and English



Real time indication for measurement situation



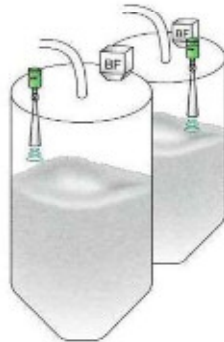
Setting input screen

Superior wide variety of applications

State-of-the-art data processing technology with unique automatic disturbance echo elimination realizes superior wide variety of applications.

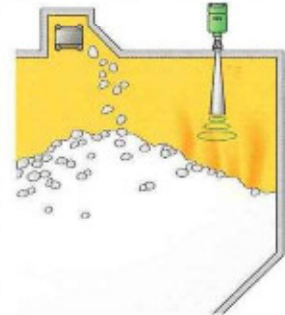
Cement Silo

Excessive dust floats in a pneumatic feeding line of a cement silo. When cement is fed into the silo by a pneumatic conveyor line, excessive dust is created and it floats in the cement silo. Floating dust does not affect the performance of the level meter, because microwaves can pass through the dust. Levels of cement can be measured without any problem even when moving cement from a tank truck to silos.



Clinker Silo

Measurement is possible in any area of a cement plant; mine, burning, AQC, clinker or milling. The microwave level meter can apply to any type of environment: high temperature, wetness, etc. Concerning kilns, the microwave level meter is very useful even under environments such as industrial waste treatment processes.



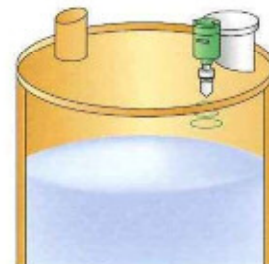
Fly-ash Silo

Measuring levels of fly ash (coal ash) is considered to be difficult, because air is blown into the silo from the bottom. Numbers of radar level transmitters have been employed recently for many fly-ash silo applications in power plants. These microwave level meters show their measurement performance with high reliability.



Chemical Tank

The radar level transmitters in the MWLM-PR26 series include a meter with a PTFE (polytetrafluoroethylene) Antenna. Because PTFE has a high chemical resistance, the meter can be used to measure levels of corrosive liquids.



Incinerator

The microwave level meter can continuously monitor the level of the burning layer in a refuse incinerator. At incineration plants, the level of garbage can also be measured. It can also be used for tanks of fuels or chemical liquids.



Tank with Gaseous Materials

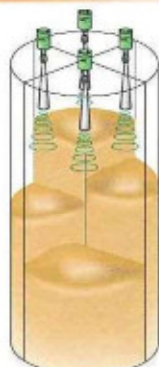
Ultrasonic level meters are not suited for measuring levels of materials that generate gas, because the gas affects the speed of sound. The radar level transmitters can measure the levels without being affected by the gas in the tank.



Silos

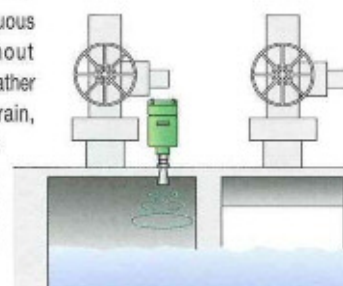
The radiation angle of this product is 8° which is narrower than earlier models.

The product is suitable for use in long-cylinder-like silos to measure levels of materials such as grains, pellets, and cement.



Water Level of River

The radar level transmitter can carry out continuous measurement without being affected by weather conditions such as rain, wind or snow. Since it does not have any emission sound, it can be used near residential areas.



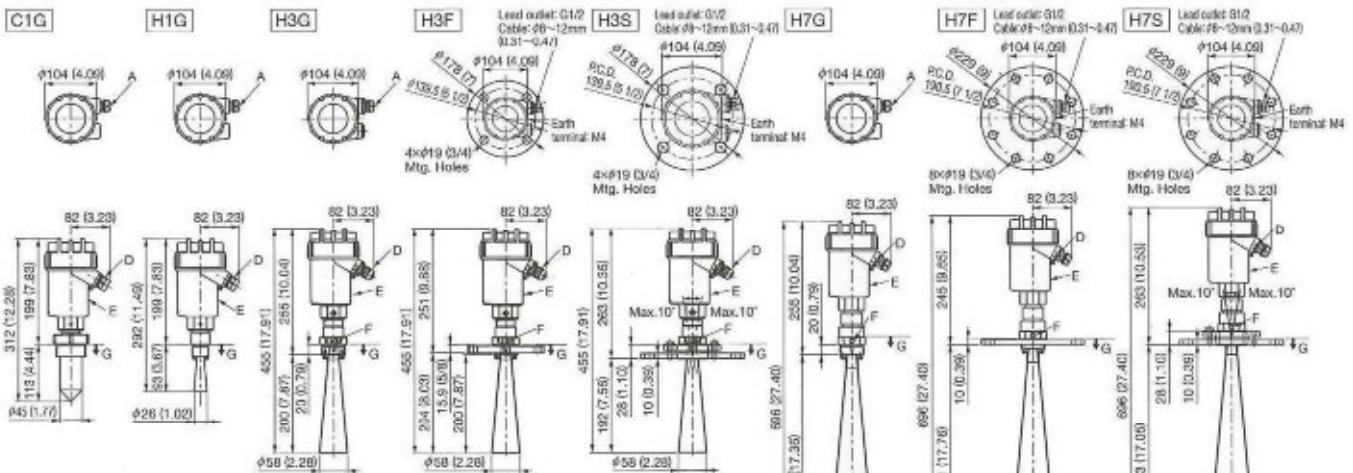
● Specifications

Model	MWLM-PR26C1G	MWLM-PR26H1G	MWLM-PR26H3G/F/S	MWLM-PR26H7G/F/S
Applications	For liquid	For liquid	For powder	For powder
Antenna	Corn	Small horn	Horn	Horn
Power Supply	20 to 32VDC (Two-wire transmission system)			
Power consumption	Approx. 800mW			
Mounting	G2 thread	G1 thread	G: G1 1/2 thread*1 F: ANSI 2 1/2" 150Lbs*1 S: ANSI 2 1/2" 150Lbs with swivel flange*1	G: G1 1/2 thread*1 F: ANSI 4" 150Lbs*1 S: ANSI 4" 150Lbs with swivel flange*1
Dead Zone	0.5m (1.64ft) below the antenna		0.3m (0.98ft) below the antenna	
Max Measurable Distance*2	10.0m (33ft)	10.0m (33ft)	35.0m (115ft)	70.0m (330ft)
Transmitting frequency	Approx. 26GHz			
Transmitting cycle	Every 83msec.			
Beam angle (-3dB)	Approx. 24deg. (approx. 48deg. including side beam)	Approx. 24deg. (approx. 48deg. including side beam)	Approx. 14deg. (approx. 28deg. including side beam)	Approx. 8deg. (approx. 16deg. including side beam)
Resolution	1mm (0.03in)			
Allowable Fluctuation Rate	10cm (3.93in)/s			
Accuracy	Repeatability: Within 2m (6.56ft) or less: ±30mm (1.18in), Within 2m (6.56ft) or more: ±20mm (0.78in) or ±0.04% of measurement range (whichever is greater) Temp. error: 0.06%/10K			
Ambient temperature	Housing: -40 to +80°C (-40 to +176°F) (with LCD: -20 to +60°C, -4 to +140°F) Note: One hour is required to warm up the device if the temperature is -20°C (-4°F) or lower when the power is turned on. Antenna: -40 to +150°C (-40 to +302°F)			
Allowable pressure	500kPa (72.52psi)	1MPa (145psi)	G: 1MPa (145psi) F: 490kPa (71.07psi) S: 10kPa (1.45psi)	G: 1MPa (145psi) F: 250kPa (36.26psi) S: 10kPa (1.45psi)
Material	Housing: PTFE Antenna: PTFE	ADC SUS304		SUS316L SUS316L
Protection	IP66 (Housing cover and lead outlet must be closed.)			
Lead outlet	IP67			
Output signal	1-G1/2 (applicable cable size: φ8 to 12mm (0.31 to 0.47in)) 4 to 20mA ADC×1 (Load resistance when 24VDC power supply is used: 499Ω max.) HART communication			
Integral Time	0 to 999s			
Mass	Approx. 1.9kg (4.19lb)/pc.	Approx. 1.6kg (3.52lb)/pc.	G: Approx. 2.3kg (5.07lb)/pc. F: Approx. 4.4kg (9.70lb)/pc. S: Approx. 5.6kg (12.35lb)/pc.	G: Approx. 2.7kg (5.95lb)/pc. F: Approx. 5.3kg (11.68lb)/pc. S: Approx. 6.0kg (13.28lb)/pc.
Accessories (option)	* LCD Adjustment unit (GRAPHIC COM 2) * Data communication cable (HM-USB-ISO) * PC Adjustment software (M-DTM)			

* 1 : JIS, DIN flange can be available

* 2 : from measurement reference zero point

● Dimension mm (in) Model : MWLM-PR26□□□



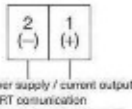
A	Lead outlet: G1/2
B	4-φ15 Mounting hole
C	8-φ19 Mounting hole
D	Earth terminal*1
E	Housing*2
F	Purge nozzle: G1/B
G	Measurement reference zero point

* 1 : Be sure to ground the earth terminal. (D-class grounding)
* 2 : Housing rotatable in 310°.

Specifications are subject to change without notice.

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● Connection



Caution
● Read the instructions to ensure correct and suitable application of products.
● Contact our nearest sales office when using our products for any systems used in situations which may be life threatening.

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