

SKR800N - Series

Radar Level Transmitter for Liquid



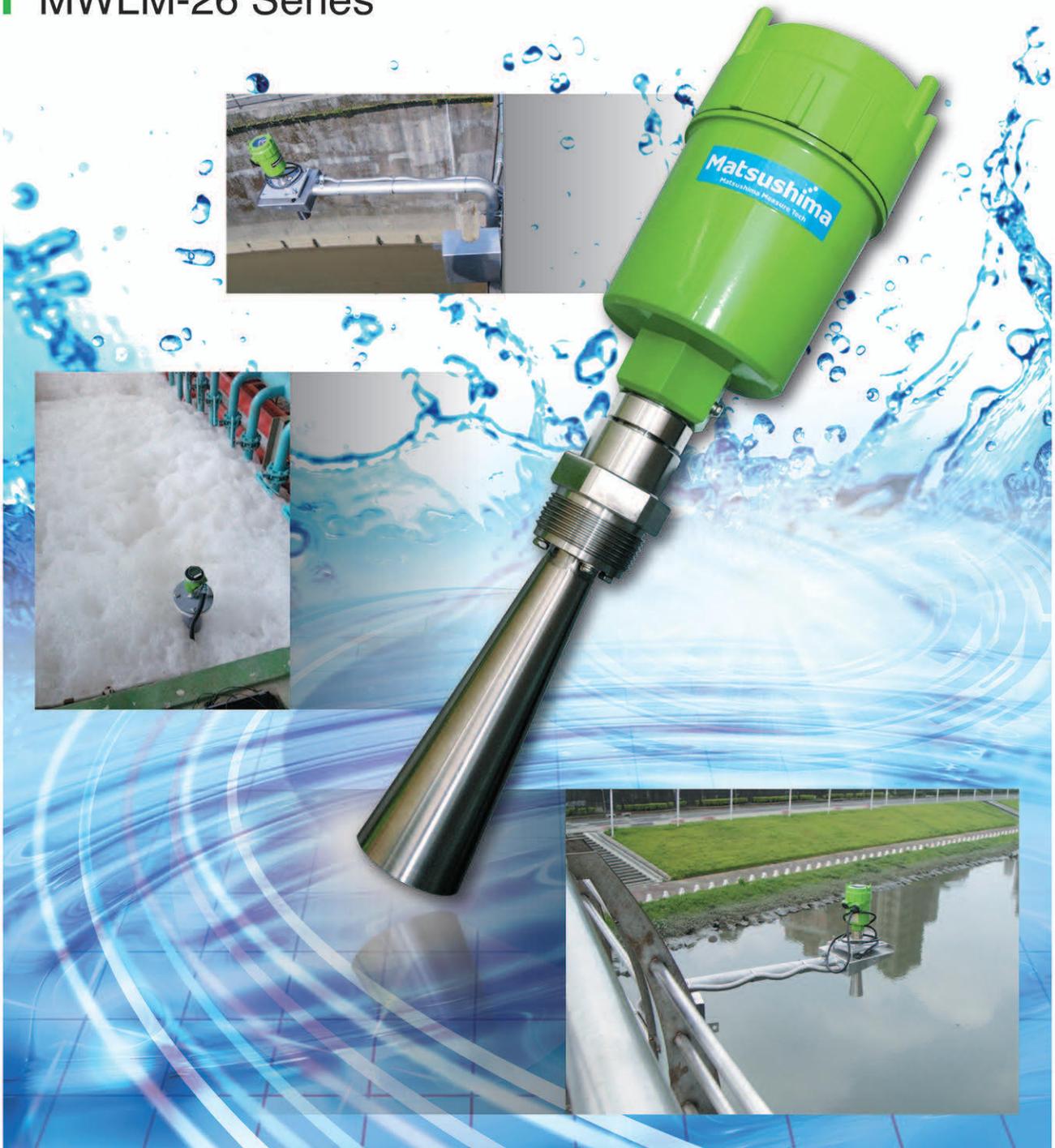
SKE | SS

Simple. Reliable. Intelligent.

For Monitoring Water & Sewage Works and River

RADAR LEVEL TRANSMITTER

MWLM-26 Series





Advanced measurement performance for liquid and slurry applications

Wonderful reliability! Stable measurement through vapor, gas, waving!

Radar Level Transmitter with 26GHz band microwave high frequency technology providing stable measurement for liquid, slurry, sludge, foaming, waving, etc.

Widely applicable for water & sewage works, river, reservoir, factory wastage, sludge treatment, etc.

Various Customizations!

Possible to provide customization upon your request as this radar is our original development.

Meets requirements for any size of flange, mounting base, etc.

Anit-insect antenna cap available as well.

Incredible quick delivery!

Ex-factory on the next day if several units!

Ask us when you need it urgently or for emergent case!

Easy adjustment and maintenance!

Basic setting is only 4 parameters on LCD unit.

Language selectable from Japanese, English, Chinese or Korean.

Simple installation! Wiring 2-wire only!

Compact & Lightweight!

Save wiring cost as 2-wire powered HART system



Antenna variation

Variety of antennas for every applications.



■ Cone antenna



■ Mini antenna



■ Horn antenna



■ Flat antenna



■ Antenna cap

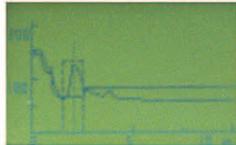
Operation



Adjustment by LCD unit on the Radar Itself.
Or, remote adjustment away from the site via 2-wire powered HART transmission system is possible as well.

Field adjustment

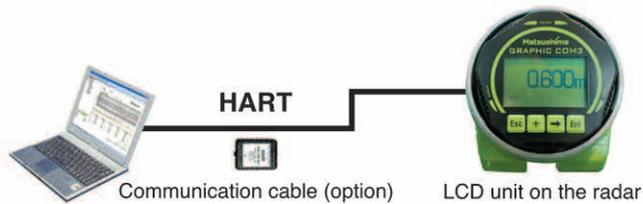
LCD adjustment unit "GRAPHIC COM3" has good visibility and adjustment with wave-form display is possible.



Real time indication for setting

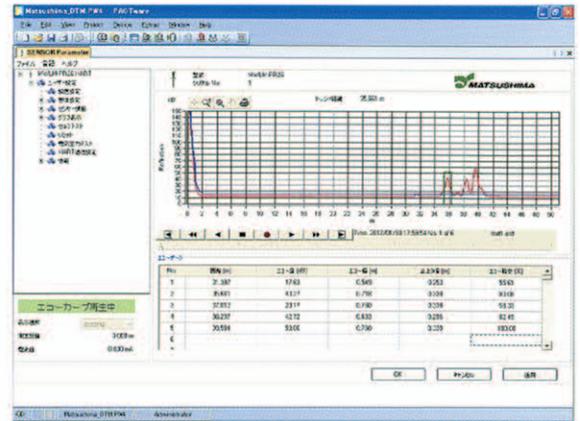
Remote adjustment

PC software provides further detail parameter setting.



Language selectable from Japanese, English, Chinese or Korean

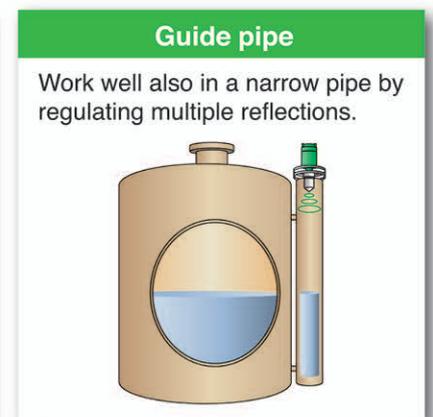
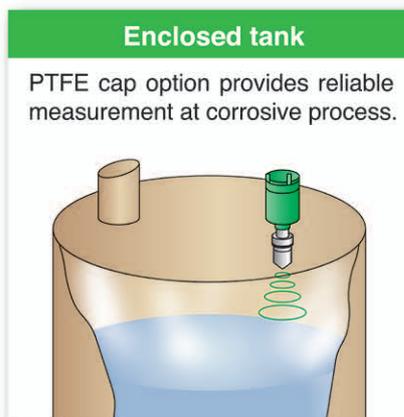
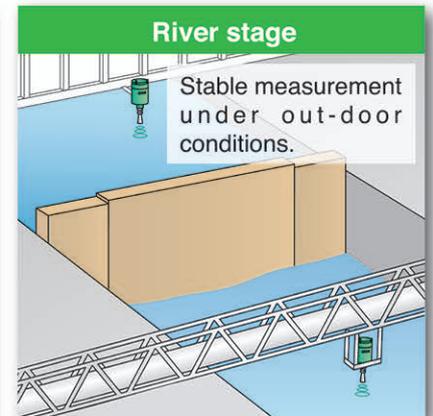
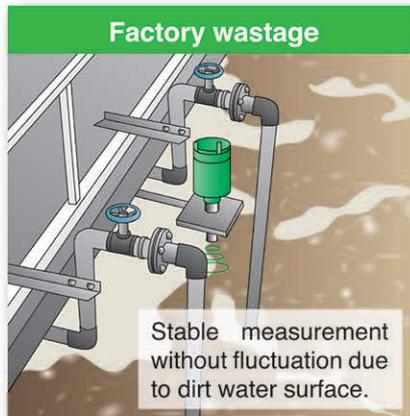
Parameters on PC software



- Real time trend indication and adjustment
- Trend recording
- Wave-form check and saving while monitoring

Reference Applications

Water & Sewage works, factory wastage, river stage, slurry tank, oil tan, gassy tank, foaming surface, vapor, reservoir, etc.

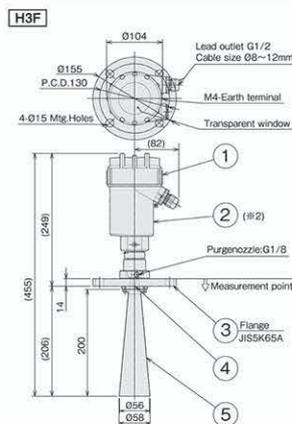
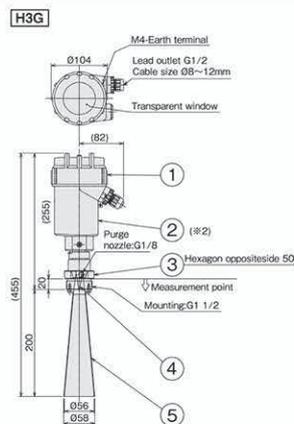
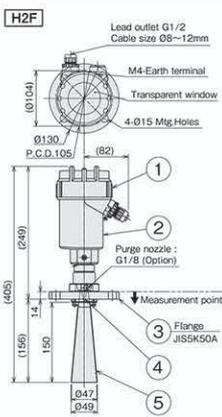
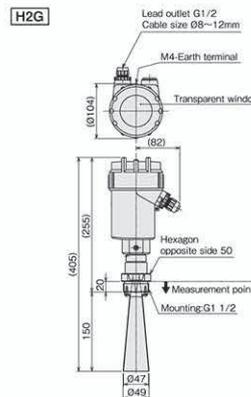
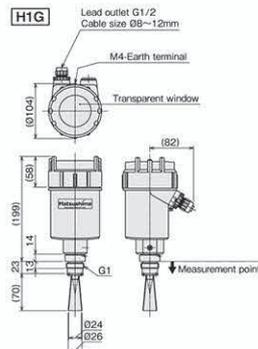
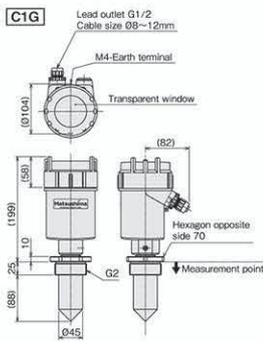


Specifications

| Type | MWLM-PR26H | | | | | |
|---------------------------|--|---------------|---|--------------------|---|-----------------|
| Product code | MWLM-PR26C1G | MWLM-PR26H1G | MWLM-PR26H2G | MWLM-PR26H2F | MWLM-PR26H3G | MWLM-PR26H3F |
| Application | For liquid application | | | | | |
| Antenna | Cone | Horn (L=70mm) | Horn (L=150mm) | | | Horn (L=200mm) |
| Power supply | DC20 to 32V | | | | | |
| Power consumption | Max. 704mW | | | | | |
| Mounting | G2 thread | G1 thread | G1-1/2 thread | JIS5K50A flange | G1-1/2 thread | JIS5K65A flange |
| Dead zone | 0.5m below antenna | | | 0.3m below antenna | | |
| Max. measurable distance* | 10.0m | | 20.0m | | 35.0m | |
| Transmitting frequency | approx. 26GHz | | | | | |
| Transmitting cycle | Every 83msec. | | | | | |
| Beam angle (-3dB) | approx. 24deg. (side beam approx. 48deg.) | | approx. 18deg. (side beam approx. 36deg.) | | approx. 14deg. (side beam approx. 28deg.) | |
| Resolution | 1mm | | | | | |
| Max. level moving rate | 10cm/s | | | | | |
| Accuracy | Repeatability | | | | | |
| | Temp. error | | | | | |
| Ambient temp. | Housing | | | | | |
| | Antenna | | | | | |
| Allowable pressure (Max.) | 500kPa | 1MPa | | 490kPa | 1MPa | 490kPa |
| Material | Housing | | | | | |
| | Antenna | | | | | |
| Protection | Housing | | | | | |
| | Antenna | | | | | |
| Lead outlet | 1-G1/2 (applicable cable size: dia. 8 to 12mm) | | | | | |
| Output signal | DC4 to 20mA x 1 (Load resistance when DC24V power applied: max. 499Ω) HART communication | | | | | |
| Integral time | 0 to 999s | | | | | |
| Mass | approx. 1.9kg | approx. 1.6kg | approx. 1.9kg | approx. 2.2kg | approx. 2.3kg | approx. 4.4kg |
| Accessories (option) | * LCD Adjustment unit (GRAPHIC COM3) * Data communication cable * PTFE antenna cap * Anti build-up antenna coating | | | | | |

*from measurement reference zero point

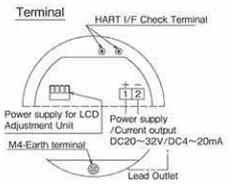
Dimension mm Model : MWLM-PR26□□□



Connection



Power supply / DC20 to 32VDC
Output signal / DC4 to 20mA
HART communication



(Ø1) Please insure connection to earth.
(Ø2) The housing can be rotated by 310° without the use of any tools.

| No. | DESCRIPTION | MATERIAL | QTY. |
|-----|-------------|----------|------|
| 5 | Antenna | SUS316L | 1 |
| 4 | Cone | PTFE | 1 |
| 3 | Flange | SUS304 | 1 |
| 2 | Housing | ADC | 1 |
| 1 | Cover | ADC | 1 |

Specifications are subject to change without notice.
All Rights Reserved Copyright © 2016, Matsushima Measure Tech Co., Ltd.



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.

Distributor

MAS Technologies
A House of Instrumentation
Regd. Off. Plot # 35 B/M, I-32, 255, Green Fields, Kattigolli, Trichy, Tamil Nadu
Secundrabad - 500 005, Telangana, India. Tel: +91 9889277752
Fax: 940-27959803 Mobile: +91 9889277752
Email: mas@mas-ipt.com / sales@mas-ipt.com
Website: www.mas-ipt.com



Matsushima Measure Tech Co., Ltd.

HEAD SALES OFFICE / FACTORY
1-8-18 Norimatsu-Higashi, Yanatanishi-ku, Kitakyushu,
807-0837 Japan
Tel: +81-(0)93-691-3731 Fax: +81-(0)93-691-3735

SHANGHAI DAHONG MATSUSHIMA MACHINERY CO., LTD.
70 Hengchang Road, Dahong, Malu, Jiading,
Shanghai 201818 China
Tel: +86-(0)21-59514138 Fax: +86-(0)21-59514139

POHANG REPRESENTATIVE OFFICE
Odyssey Bldg. 1F, 41, Jukdo-ro, 28beon-gin, Buk-Gu,
Pohang-Si, Gyeongbuk-do, 791-841, Korea
Tel: +82-(0)54-274-3731 Fax: +82-(0)54-274-3731