

분체 / 액체 레벨 모니터

시스템 기능

개요

MWLM-PR26 레이더식 Microwave(26GHz) 레벨계는 측정물에 비접촉으로 측정함으로써 다양한 종류의 분체/액체 계측에 적용 됩니다. 콤팩트하게 설계된 시스템으로써 안정적인 레벨 계측을 실현 합니다.

- 분체 / 액체 레벨 측정용
- 불감도 거리 안테나 끝부분에서 0.3m (분체) / 0.5m (액체)
- 최대측정거리 70m (분체) / 20m (액체)
- 정확도  $\pm 0.25\%$  F.S

센서 조정은 간단한 파라미터를 입력하는 것으로 조정이 가능하며, 에어 퍼지가 표준으로 탑재되어 있으며 각도 조정 등의 옵션도 포함되어 폭넓은 설치 환경에 적용 가능합니다.



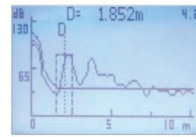
Model : MWLM-PR26 Series

- 분체 / 고체 레벨 측정
- 액체 / 슬러지 레벨 측정

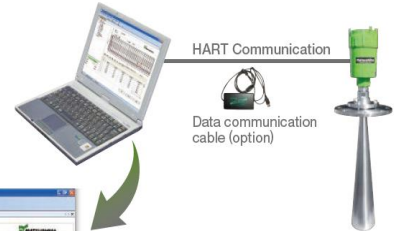
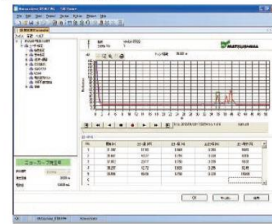
시스템 구성

구성요소

- Level transmitter (Compact)
- Antenna (Standard type)
- Hart communication tool (With Software CD)



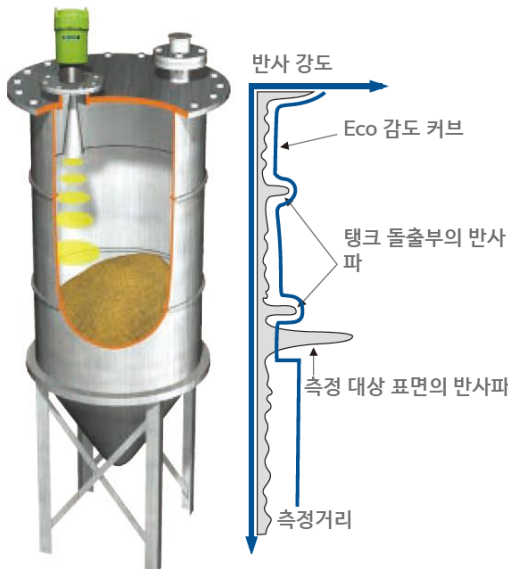
Real time indication for measurement situation



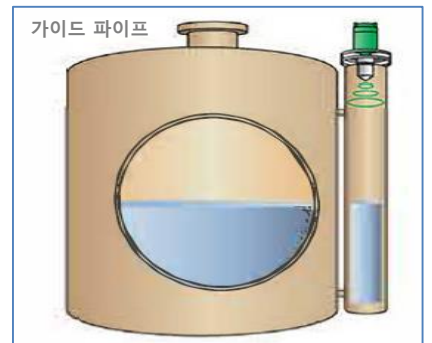
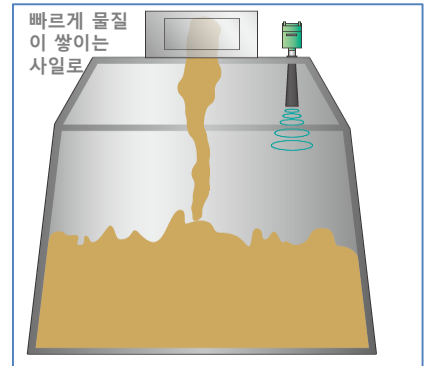
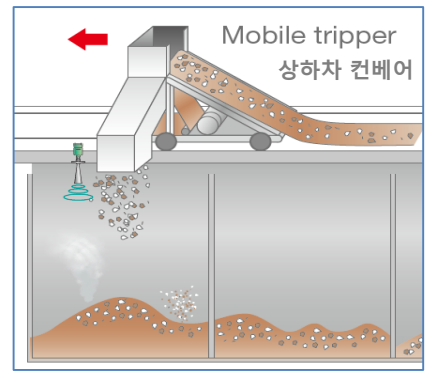
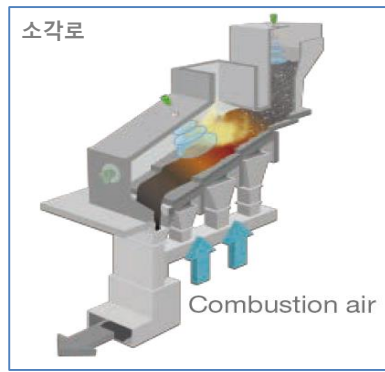
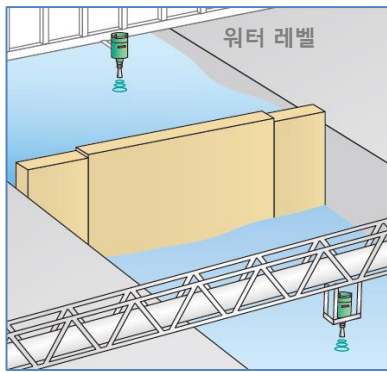
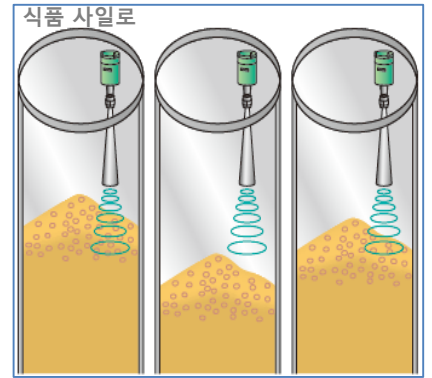
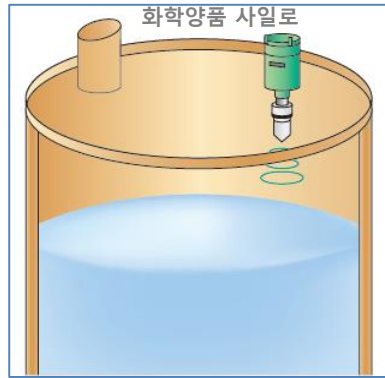
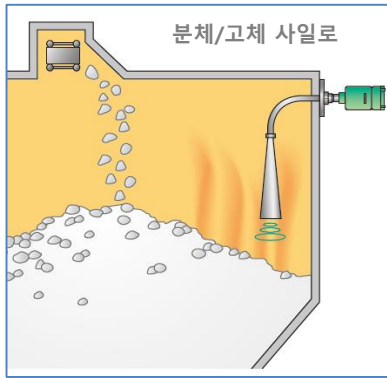
적용 어플리케이션

하수처리장	슬러지자원화	화학	에너지플랜트
시멘트	발전소	광물	식품
석회공정	바이오매스	곡물	석고슬러지

마이크로웨이브 레벨 미터는 레벨 미터가 안테나에서 펄스 레이더 파를 방출한 후 측정 대상에서 반사된 파동(에코)이 미터로 되돌아올 때까지의 시간을 측정하여 거리로 계산 합니다.



적용 가능 어플리케이션



## Specification

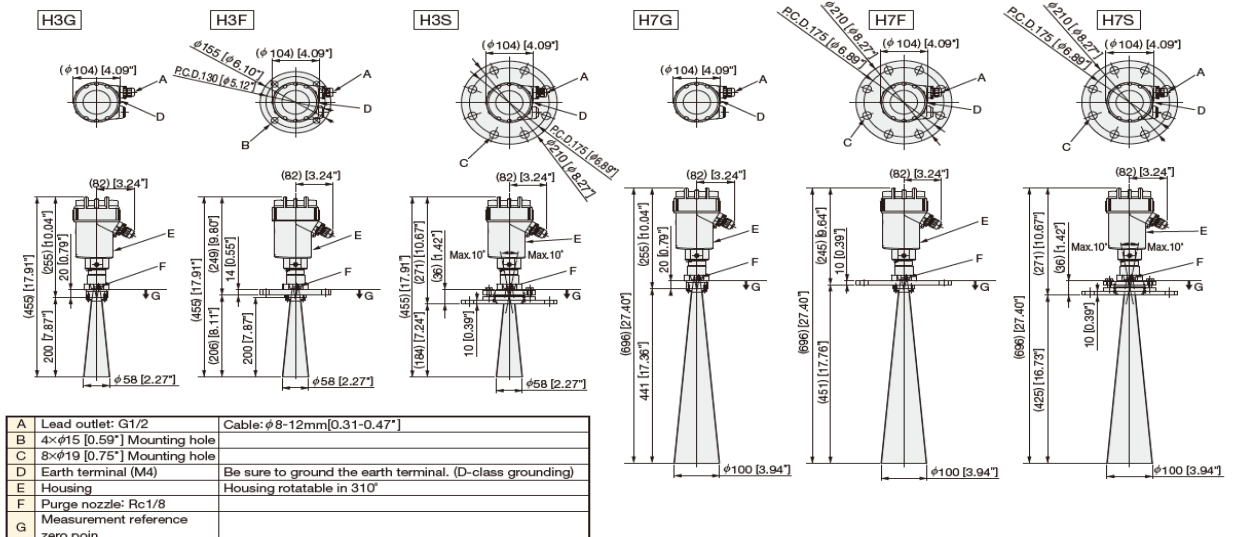
### For Powder

Model	MWLM-PR26H*
Antenna	Horn
Power supply	Standard : DC13 -36V Ex-proof : DC20 – 32V x 2 Power supply by barrier unit
Power Consumption	Standard type : Approx. 704mW, Ex type : Approx. 540mW
Mounting	G1 or G1 ½ Thread or Flange type or Swiveling flange
Dead Zone	0.3m below the antenna
Max Measurable Distance	35.0 / 70.0 m from measuring reference zero point
Transmitting frequency	Approx. 26GHz
Transmitting Cycle	Every 83ms
Beam angle	Approx. 14deg.(approx. 28deg. including side beam) / Approx. 8deg. (approx. 16deg. including side beam)
Resolution	1mm
Allowable Fluctuation Rate	10cm/s
Accuracy repeatability	Within 1.2m (3.94ft) or less: ± 30mm (1.18in), Over 1.2m (3.94ft) or more: ± 20mm (0.78in) or ± 0.04% of measurement range (Whichever is greater)
Accuracy Temp. Error	Standard: ± 0.03% /10K, Ex-proof: 0.06%/6K
Ambient Temp. housing	Standard: -40 ~ +80, With LCD: -20 ~ +60°C, Ex-proof: -20 ~ +50°C 1 hour is required to warm up the device if the temperature is lower than -20°C.
Ambient Temp. Antenna	Standard: -40 ~ +150°C, Ex-proof: -40 ~ +100°C
Allowable Pressure	1MPa / 490kPa / 500kPa / 1MPa / 250kPa / 500kPa
Material Housing	ADC
Material Antenna	SUS316L
Protection	IP67
Output signal	4-20mA x 1 (Load resistance when 24VDC power supply is used :499Ω max) , HART Communication
Integral time	0 - 999s
Weight	Approx. 2.3 ~ 6.5 kg (Each difference for your applications)
Explosion-proof construction	Intrinsically safe construction Ex ia IIB T4 X (TIIS)
Division of hazardous section	Zone1, Zone2 (Housing) / Zone0, Zone1, Zone2 (Antenna)

Accessory option      · LCD adjustment unit (GRAPHIC COM4) · Data Communication cable (MHM-01) · PC adjustment software (M-DTM)

### ●Dimension mm [in]

Model : MWLM-PR26 □□□



## Specification

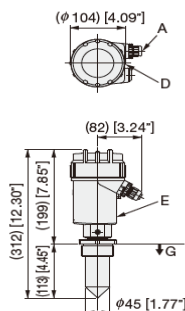
### For Liquid

Model	MWLM-PR26C* / 26H*
Antenna	Corn / Horn
Power supply	Standard : DC13 -36V Ex-proof : DC30 - 32V x 2 Power supply by barrier unit
Power Consumption	Standard type : Approx. 704mW, Ex type : Approx. 540mW
Mounting	G1 or G1 ½ Thread or Flange type or Swiveling flange
Dead Zone	0.5m below the antenna
Max Measurable Distance	10.0 / 20.0 m from measuring reference zero point
Transmitting frequency	Approx. 26GHz
Transmitting Cycle	Every 83ms
Beam angle	Approx. 24deg.(approx. 48deg. Including side beam) / Approx. 18deg. (approx. 36deg. including side beam)
Resolution	1mm
Allowable Fluctuation Rate	10cm/s
Accuracy repeatability	Within 1.2m (3.94ft) or less: ± 30mm (1.18in), Over 1.2m (3.94ft) or more: ± 20mm (0.78in) or ± 0.04% of measurement range (Whichever is greater)
Accuracy Temp. Error	Standard: ± 0.03% /10K, Ex-proof: 0.06%/6K
Ambient Temp. housing	Standard: -40 ~ +80, With LCD: -20 ~ +60°C, Ex-proof: -20 ~ +50°C 1 hour is required to warm up the device if the temperature is lower than -20°C.
Ambient Temp. Antenna	Standard: -40 ~ +150°C, Ex-proof: -40 ~ +100°C
Allowable Pressure	1MPa / 490kPa / 500kPa / 1MPa / 250kPa / 500kPa
Material Housing	ADC
Material Antenna	SUS316L
Protection	IP67
Output signal	4-20mA x 1 (Load resistance when 24VDC power supply is used :499Ω max) , HART Communication
Integral time	0 - 999s
Weight	Approx. 2.3 ~ 6.5 kg (Each difference for your applications)
Explosion-proof construction	Intrinsically safe construction Ex ia IIB T4 X (TIIS)
Division of hazardous section	Zone1, Zone2 (Housing) / Zone0, Zone1, Zone2 (Antenna)
Accessory option	• LCD adjustment unit (GRAPHIC COM4) • Data Communication cable (MHM-01) • PC adjustment software (M-DTM)

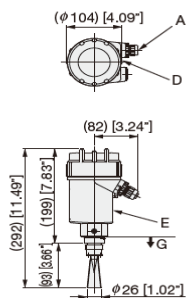
### ●Dimension mm [in]

Model : MWLM-PR26□□□

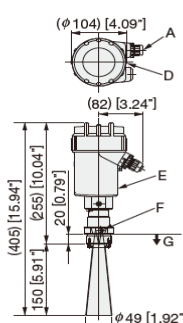
C1G



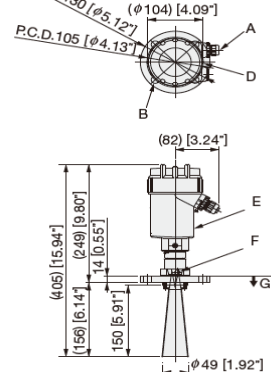
H1G



H2G



H2F



A	Lead outlet: G1/2	Cable: φ8-12mm [0.31-0.47"]
B	4×φ15 [0.59"] Mounting hole	
C	8×φ19 [0.75"] Mounting hole	
D	Earth terminal (M4)	Be sure to ground the earth terminal. (D-class grounding)
E	Housing	Housing rotatable in 310°.
F	Purge nozzle: Rc1/8	
G	Measurement reference zero point	