

1. Application		Sintering cooler			
2. TAG No.		—			
3. Type		MWLM-PR26H			
4. Code		MWLM-PR26H7GWN			
5. Power supply		DC13 to 36V * When mounting the LCD adjustment unit: 16 to 36V			
6. Power consumption		800mW			
7. Mounting		Equivalent JIS10K100A flange			
8. Dead zone		1.0m below the antenna			
9. Max. measuring distance		70.0m * from measurement reference zero point			
10. Transmitting frequency		Approx. 26GHz			
11. Transmitting cycle		every 83ms			
12. Beam angle (-3dB)		Approx. 8deg. (16deg including side beam)			
13. Resolution		1mm			
14. Allowable fluctuation rate		10cm/s			
15. Accuracy		≤1.2m:±20mm、>1.2m:±10mm			
16. Temp. error		±0.03% / 10K, Max.±0.3%			
17. Ambient temp.	Housing	-40 to +80°C (with LCD: -20 to +60°C) (1h warm-up operation required under -20°C)			
	Antenna				
18. Allowable pressure		Atmospheric pressure			
19. Protection	Housing	IP66 (Housing cover and lead outlet must be closed.)			
	Antenna				
20. Lead outlet		1-G1/2 (Cable size:φ9~11mm)			
21. Output signal		DC 4 to 20mA × 1 (Max. 650Ω resistive load at DC24V)			
22. Integration time		0 to 999s			
23. Mass		Approx. 13.0 kg / pc.			
24. Quantity		1 pcs			
25. Accessories(Options)		LCD Adjustment unit (GRAPHIC COM4)		☐ YES ☒ NO	
		Dust cap		☐ YES ☒ NO	
26. Utility(Air cooler)		Fluid: Air or N2		Flow rate: 165~390L/min	
		Pressure: 0.3~0.7MPa		Temperature: 35°C Below	
27. Measuring and Process Condition	Measuring span	3.0m (100%) to 5.0m (0%)		(※1)	
	Material to measured	Sintered ores			
	Dielectric constant	—			
	Particle size	30mm			
	Bulk density	—			
	Moisture content	—			
	Angle of repose	—			
	Material temperature	—			
	Material concentration	****			
	Foam	****			
	Process pressure	Open tank / Atmospheric pressure			
	Agitator	****			
	Ambient temperature	—			
	Process temperature	—			
	Fume	No			
	Condensation	No			
	Corrosive gas	Yes			
Moisture content	10cm/sec or less				
29. N: Special		With cooling box			
(Remarks) ① Measuring range and accuracy specified above is of standard catalog specification and may change according to measurement conditions. ② Make sure that lead outlet is securely fastened. Otherwise, it may cause malfunction due to ingress of water. ③ No noise/surge and Ripple (P-P) 10% or below is required at instrumentation power applied. ④ Such installation that tip of the antenna protrudes in vessel from edge of nozzle is recommended. ⑤ Such protective measures to keep no freezing/condensation in electronics part is required. ⑥ Note that some kind of gas or fume may penetrate PTFE cone part and cause malfunction. Please take special note especially for corrosive gas such as H2S, HCl, HF, etc. (※1) It shows factory setting parameters and may change at the site according to the actual measurement conditions.					
MESSRS		E.S.T.No. 4240113			
ORDER.No.		ACCEPT.No.			
		TITLE Specification of Radar Level Transmitter MWLM-PR26H (MWLM-PR26H7GWN)			
				- Nov.4.2025 M.Takewaka D.Inoue	
				No. DATE CHECK'D APP'D	

1. カサ上げ短管について (Short-pipe for lifting)

原料(面)がセンサの不感帯に入る場合には、カサ上げ短管を取り付け、原料がセンサの不感帯に入らない様にして下さい。

When the material may come into the blind range of sensor, mount a lifting short-pipe so that the material doesn't come into the blind range of sensor.

注意：原料が不感帯以内に入らない場合は、カサ上げ短管を使用する必要はありません。

Note: It's not necessary to mount a lifting short-pipe when material doesn't come into the blind range.

2. 不感帯について (Blind range of Microwave transmitter)

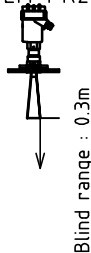
アンテナ面より0.3(0.5)m以内は不感帯であり測定できません。

The blind range is within 0.3(or 0.5)m from antenna side. Within these ranges, measurement is impossible.

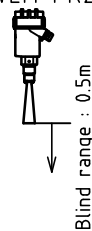
粉体用 / For powder
MWLM-PR26H7S



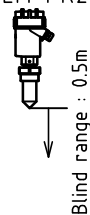
粉体用 / For powder
MWLM-PR26H3S



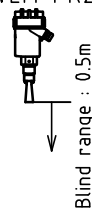
液体用 / For liquid
MWLM-PR26H2G



液体用 / For liquid
MWLM-PR26C1G



液体用 / For liquid
MWLM-PR26H1G



3. 推奨短管サイズ (Recommended size of short-pipe)

TYPE	粉体用 Solids	液体用 Liquids
短管内径(φ) Inside dia (φ) of short-pipe	短管の最大L寸法 (mm) Max. length of short-pipe (mm)	
≥ 65	—	Max. 65mm
≥ 100	Max. 100mm	
≥ 150	Max. 200mm	
≥ 200	Max. 300mm	

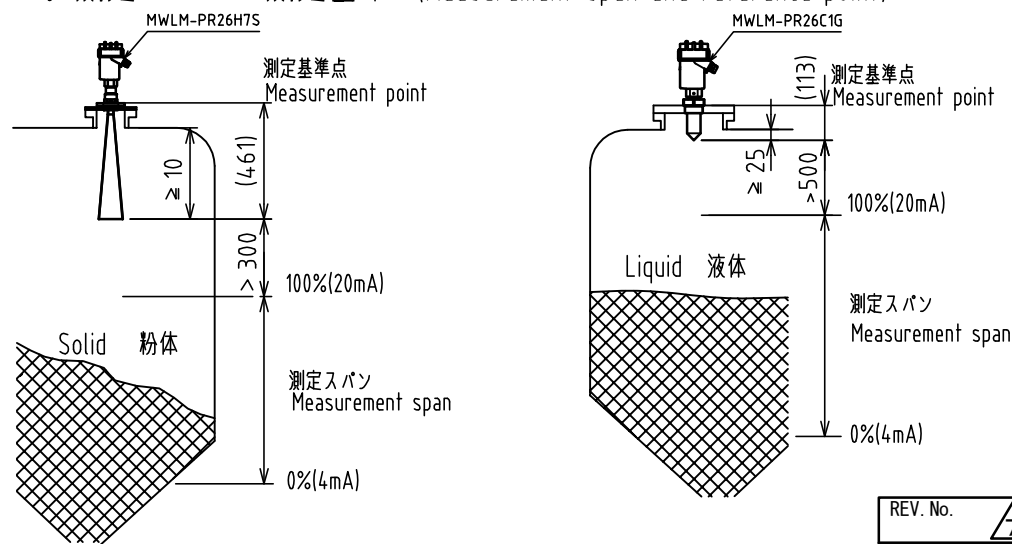
注意：短管は必要以上に長くしないで下さい。

ノイズの発生によるエコーの減衰がおこり誤計測の原因となります。

Note: Do not make the short-pipe unnecessarily longer.

Otherwise it may cause malfunction of measurement due to echo attenuation by noise generation.

4. 測定スパンと測定基準 (Measurement span and reference point)



* 測定基準 (0m) は外形図を参照下さい。

基本的に取付ネジ上部が測定基準点になります。

* Refer to external dimensions for measurement reference point.

Basically upper part of mounting compartment is measurement reference point.

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REVISED	M. Kaieda	APPROVED	K. Shigaki
REMARKS			
Product name change			

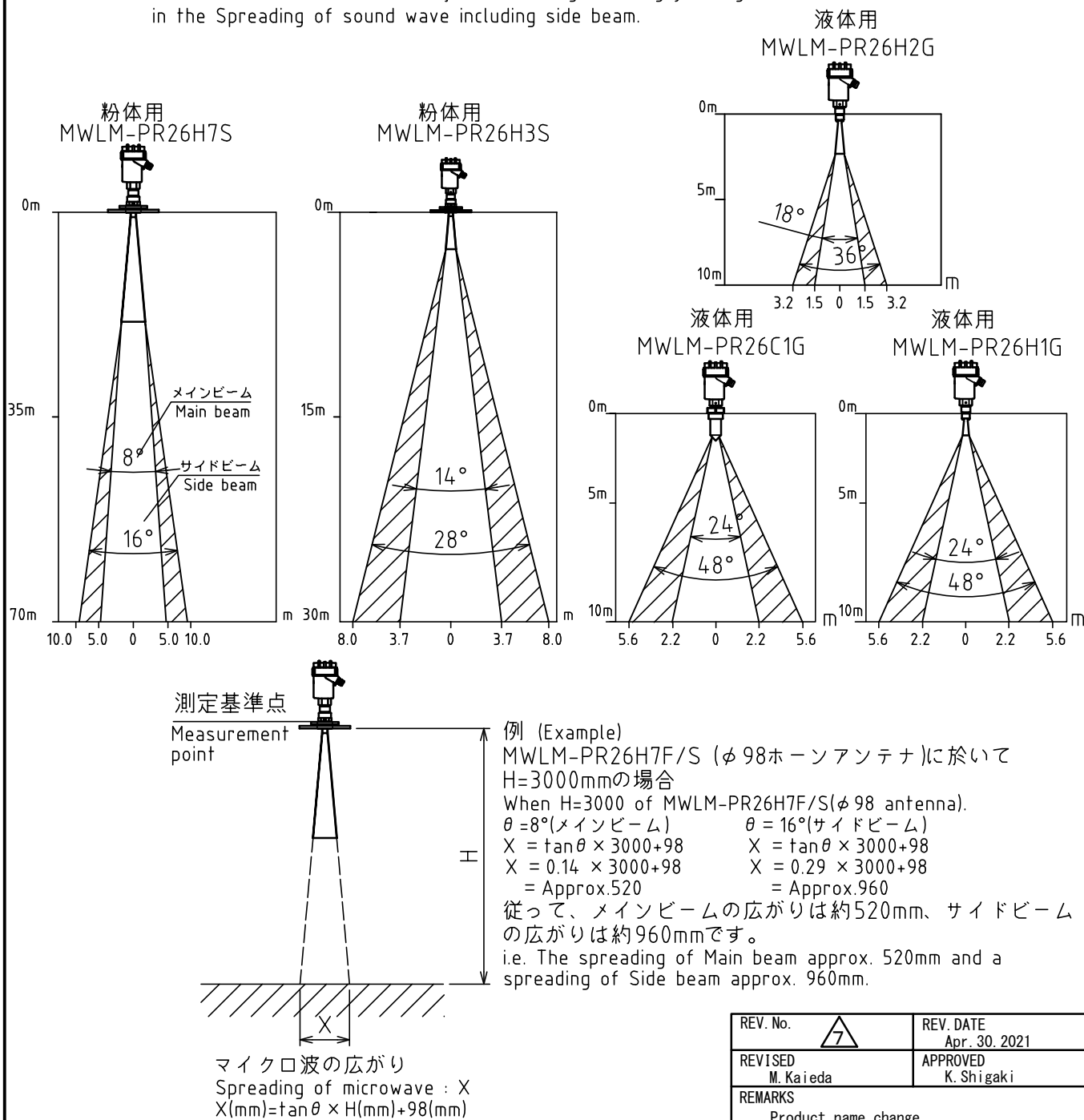
SCALE	not to scale	DATE	Jul. 29, 2011	APPROVED	H. Nabeuchi	TITLE レーダー式マイクロ波レベル計取付参考資料 REFERENCE MATERIAL FOR INSTALLATION OF RADAR LEVEL TRANSMITTER
UNITS	mm	DRAWN	T. Kuroda	CHECKED	H. Nabeuchi	
Matsushima Matsushima Measure Tech				DRAWING NO. C47B0057		REV. No. 7

5. マイクロ波の広がりについて (Spreading of sound wave)

形式 Type	MWLM-PR26H7	MWLM-PR26H3	MWLM-PR26H2	MWLM-PR26C1	MWLM-PR26H1
用途 Applications	粉体用 For powder	粉体用 For powder	液体用 For liquid	液体用 For liquid	液体用 For liquid
アンテナ面の幅 Width of antenna surface	98mm	56mm	49mm	45mm	24mm
放射角 (-3dB) θ Radiation angle	8°	14°	18°	24°	24°
$\tan \theta$	0.14	0.25	0.32	0.46	0.46
サイドビームを含むマイクロ波の広がり Spreading of sound wave including side beam	16°	28°	36°	48°	48°

※ サイドビームを含むマイクロ波の広がりにより妨害ノイズが発生する障害物が入らないような取付をして下さい。

※ Mount the sensor so that any obstacle generating jamming noise doesn't encroach in the Spreading of sound wave including side beam.

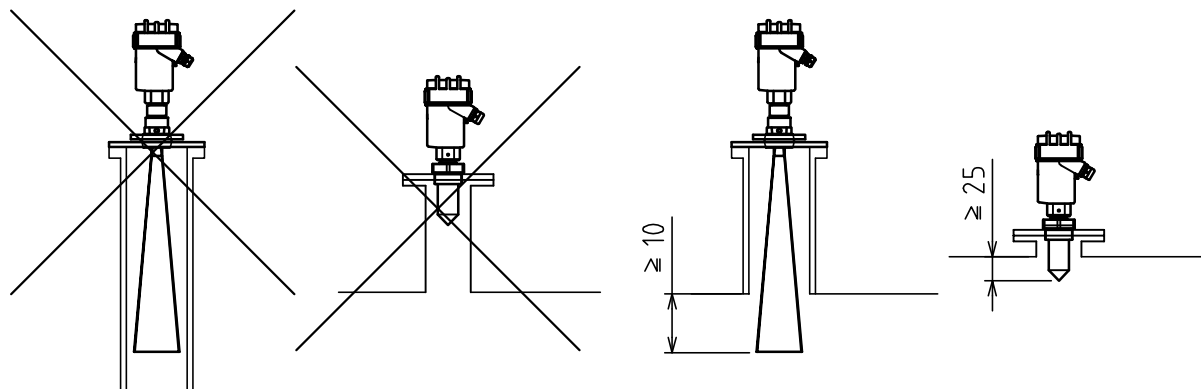


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REMARKS Product name change			

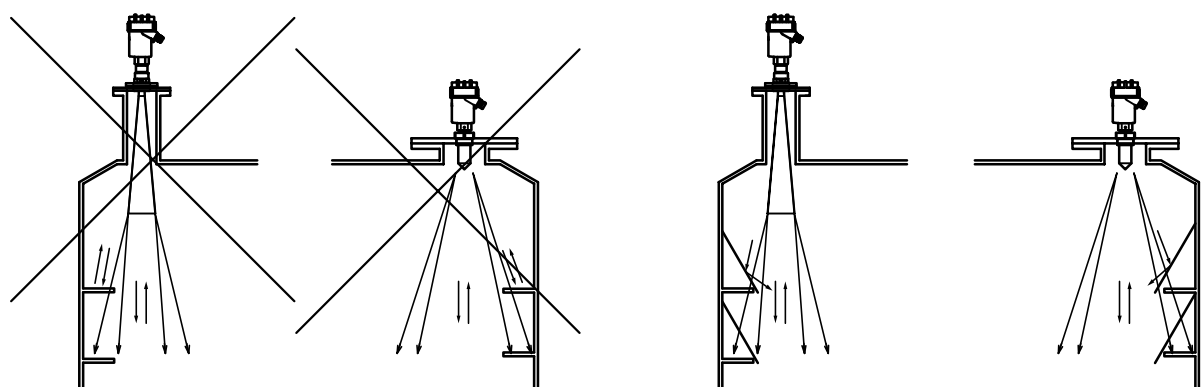
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UNITS mm	DRAWN T. Kuroda	CHECKED H. Nabeuchi			
Matsushima Matsushima Measure Tech			DRAWING NO. C47B0057		REV. No. 7
			2/4		

6. 取付上の注意 (Notes for installtion)

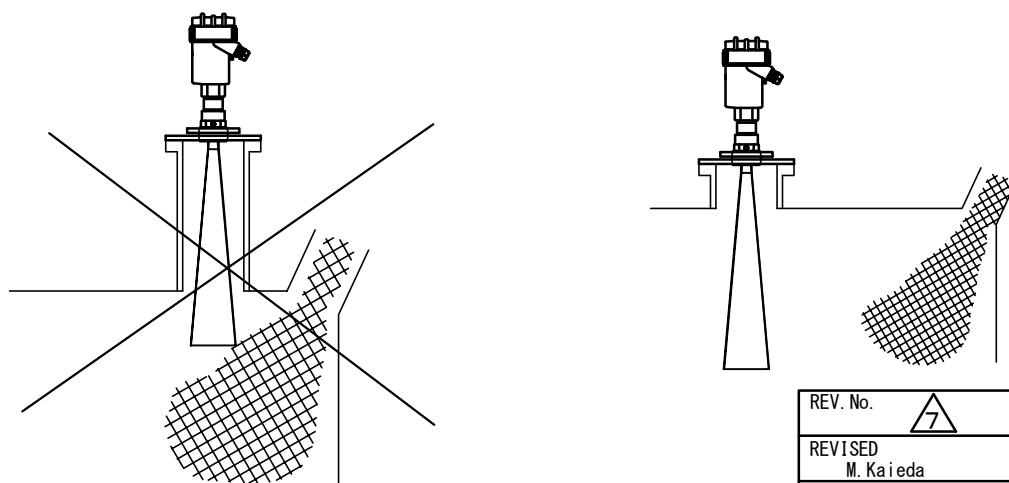
- 6-1. 液体用の場合：アンテナ先端が短管の端面より25mm以上出るように取付て下さい。
 粉体用の場合：アンテナ先端が短管の端面より10mm以上出るように取付て下さい。
 For the liquid : Installation to which antenna tip goes out of roller end face of short pipe by 25mm or more.
 For the solid :Installation to which tip of horn antenna goes out of roller end face of short pipe by 10mm or more.



- 6-2. タンクに梁やH鋼がある場合、遮蔽板を取付て妨害反射の影響を小さくして下さい。
 When crossbeams or supports are installed inside the tank, provide shielding to minimize Noise (false reflections).



- 6-3. 原料投入口付近に取付ないで下さい。
 Do not mount the sensor near the material charging inlet.

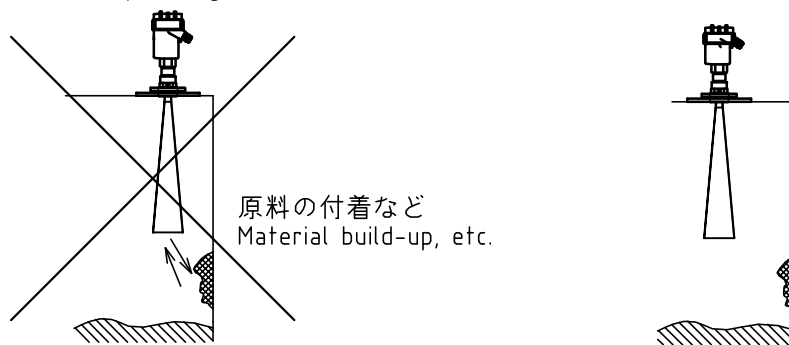


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Matsushima Matsushima Measure Tech				DRAWING NO. C47B0057		REV. No. 7
				3/4		

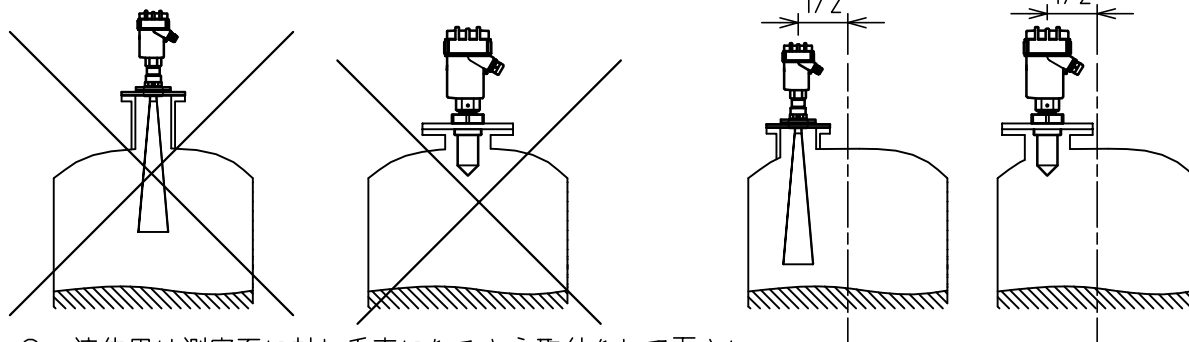
6-4. マイクロ波の広がり範囲内にノイズの発生するようなものが入らないようにして下さい。

Ensure that any object generating noise doesn't encroach in the range of microwave spreading.



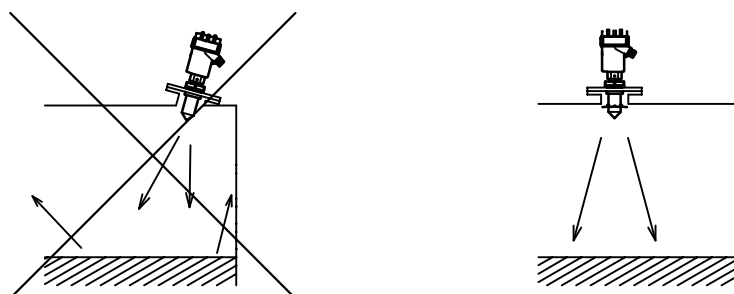
6-5. タンクの中心部にはセンサは設置しないで下さい。

Do not mount the sensor at the center of tank.



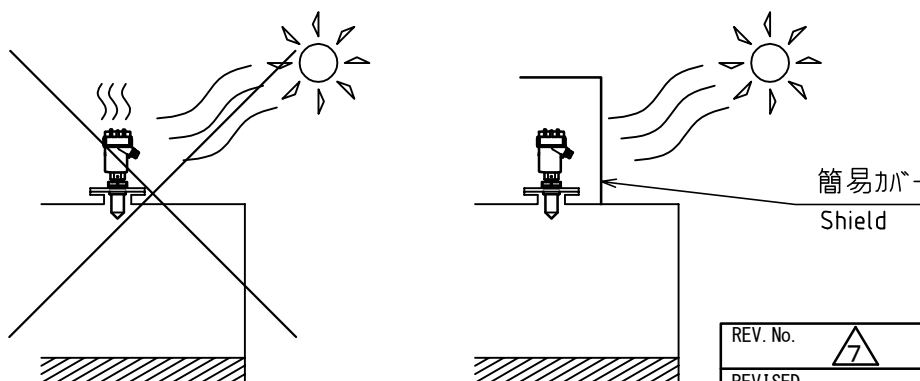
6-6. 液体用は測定面に対し垂直になるよう取付をして下さい。

Mount the sensor so that the sensor is located at vertical position against the surface to be measured.



6-7. 直射日光が当たらない様に簡易カバーを取付けて下さい。

Strong heat fluctuations, e.g. due to the sun cause measuring errors. Provide a shield.



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