No.	タイトル TITLE	図面番号 DRAWING No.	改版 REVISION	備　考 REMARKS
1	CONTENTS OF DRAWING SUBMITTING	—	—	
2	SPECIFICATION OF RADAR LEVEL TRANSMITTER	—	0	
3	DIMENSION DIAGRAM OF RADAR LEVEL TRANSMITTER	C31B0324	0	
4	CONSTRUCTION DIAGRAM OF MICROWAVE LEVEL METER	C33B0054	0	
5	ACCESSORY LIST	—	0	
	BLANK SPACE			

CD:
MESSRS.　E.S.T.No.　4220203
ORDER No.　ACCEPT No.　23K1821

Matsushima
Matsushima Measure Tech

ITLE
提出図面目録
CONTENTS OF DRAWING SUBMITTING

No.	DATE	CHECK'D	APP'D
△			
△			
△			
△			
	Jun.11.2023	D. Inoue	K.Nakamura

1. Application		–
2. TAG No.		–
3. Type		MWLM-PR26H
4. Code		MWLM-PR26H7GSN
5. Power supply		DC13 to 36V * When mounting the LCD adjustment unit: 16 to 36V
6. Power consumption		800mW
7. Mounting		JIS10K400A FF 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℃)
	Antenna	-40 to +150℃
18. Allowable pressure		Max.1MPa
19. Protection		IP67 (Housing cover and lead outlet must be closed.)
20. Lead outlet		Power･Signal Con.
21. Output signal		DC 4 to 20mA × 1 (Max. 650Ω resistive load at DC24V)
22. Integration time		0 to 999s
23. Mass		Approx. 71 kg / pc.
24. Painting color		Munsell 7.5GY6/10
25. Quantity		2 pcs
26. Utility	Cooling Air	Fluid: Air Flow rate: 226~368L／min Pressure: 0.4 ～ 0.7MPa Temperature: 35°CBelow
	Antenna Purge	Fluid: N2 Flow rate: 147L／min Pressure: (Pressure in the tank)+0.98kPa Temperature: 35℃Below
27. Measuring and Process Condition	Measuring span	2.5 m (100%) to 30 m (0%) (※1)
	Material to measured	「 」
	Particle size	「 」
	Level variation speed	「 」cm/s
	Bulk density	「 」
	Angle of repose	「 」deg
	Material temperature	「 」℃
	Ambient temperature	「 」℃
	Process temerature	「 」℃
	Process pressure	「 」Pa
	Fume	YES ／ NO
	Moisture content	「 」%
28. Accessories		LCD Adjustment unit(GRAPHIC COM4) 2pcs

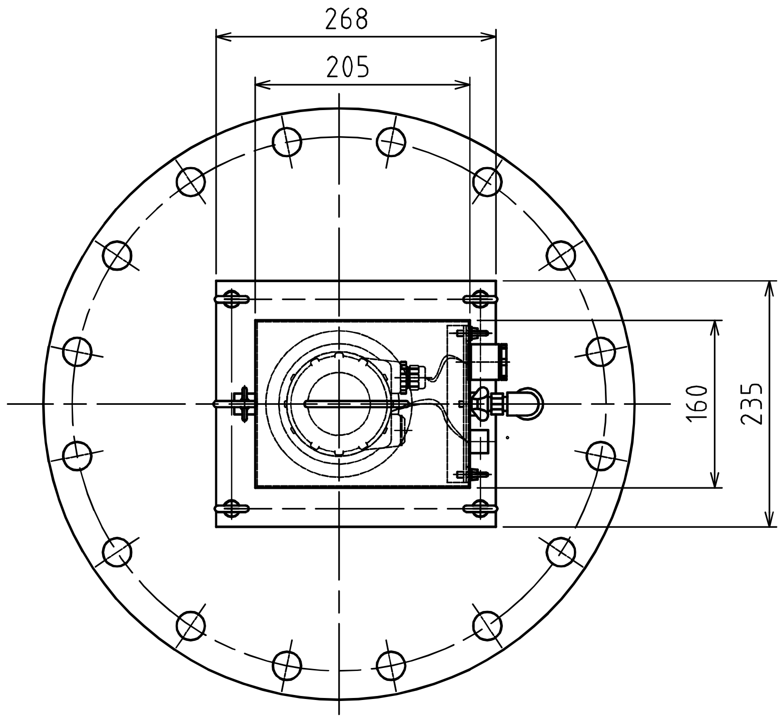
(※1) It shows factory setting parameters and may change at the site according to the actual measurement conditions.

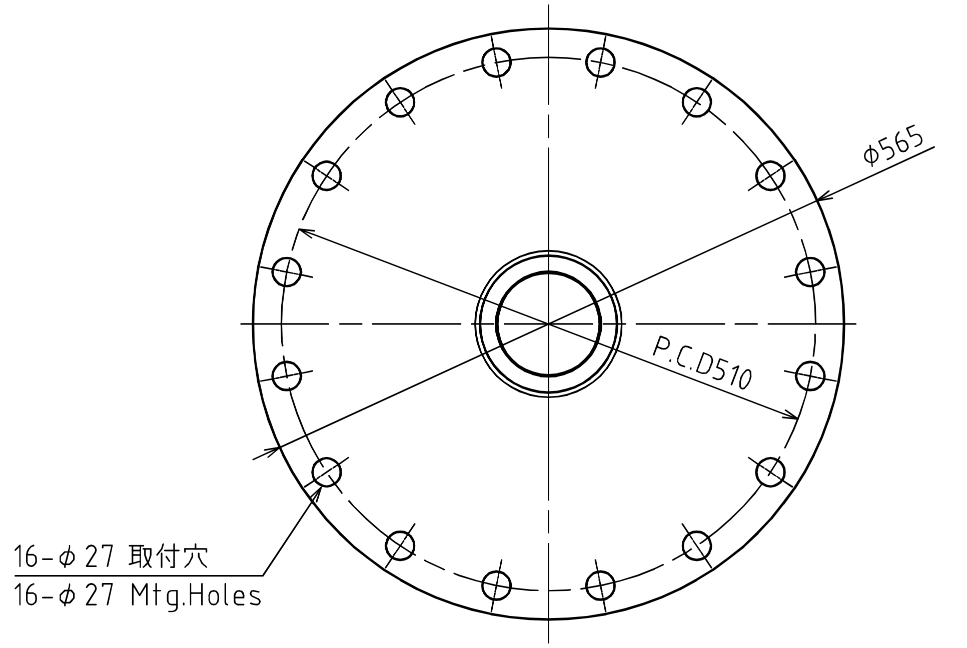
(Remaks)
① Measuring range and accuracy specified above is of standard catalog specification and may change according to measurement conditions.
② Make sure that lead outlet is securely fastened.
Otherwise, it may cause malfunction due to ingress of water.
③ No noise/surge and Ripple (P-P) 10% or below 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 proetective 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 gasa such as H2S, HCI, HF, etc.
⑦ The air for Air cooler, Air purge for dust-proof antenna cap should be passed through a Mist separator, Air filter etc. to remove moisture, oil content etc..
Before starting air supply, flush the pipe to remove any foreign material from inside the pipe.

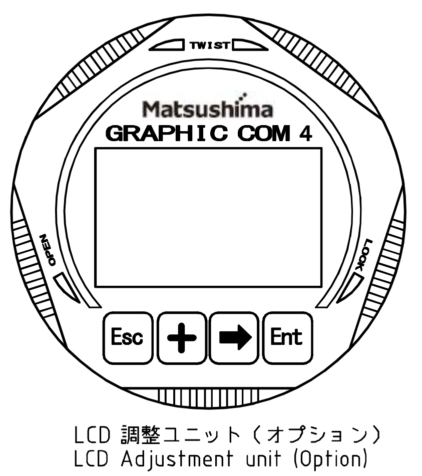
MESSRS	E.S.T.No. 4220203	△			
ORDER.No.	ACCEPT.No. 23K1821	△			
Matsushima Matsushima Measure Tech	TITLE	△			
	Specification of Radar Level Transmitter	-	Jul.11.2023	D.Inoue	T.Iwamoto
	MWLM-PR26H (MWLM-PR26H7GSN)	No.	DATE	CHECK'D	APP'D

TYPE	MWLM-PR26H
CODE	MWLM-PR26H7GSN

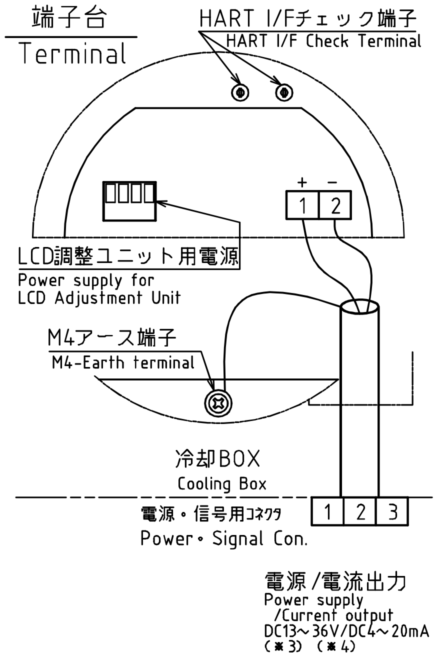
REV. No. △	REV. DATE
REVISED	APPROVED
REMARKS	

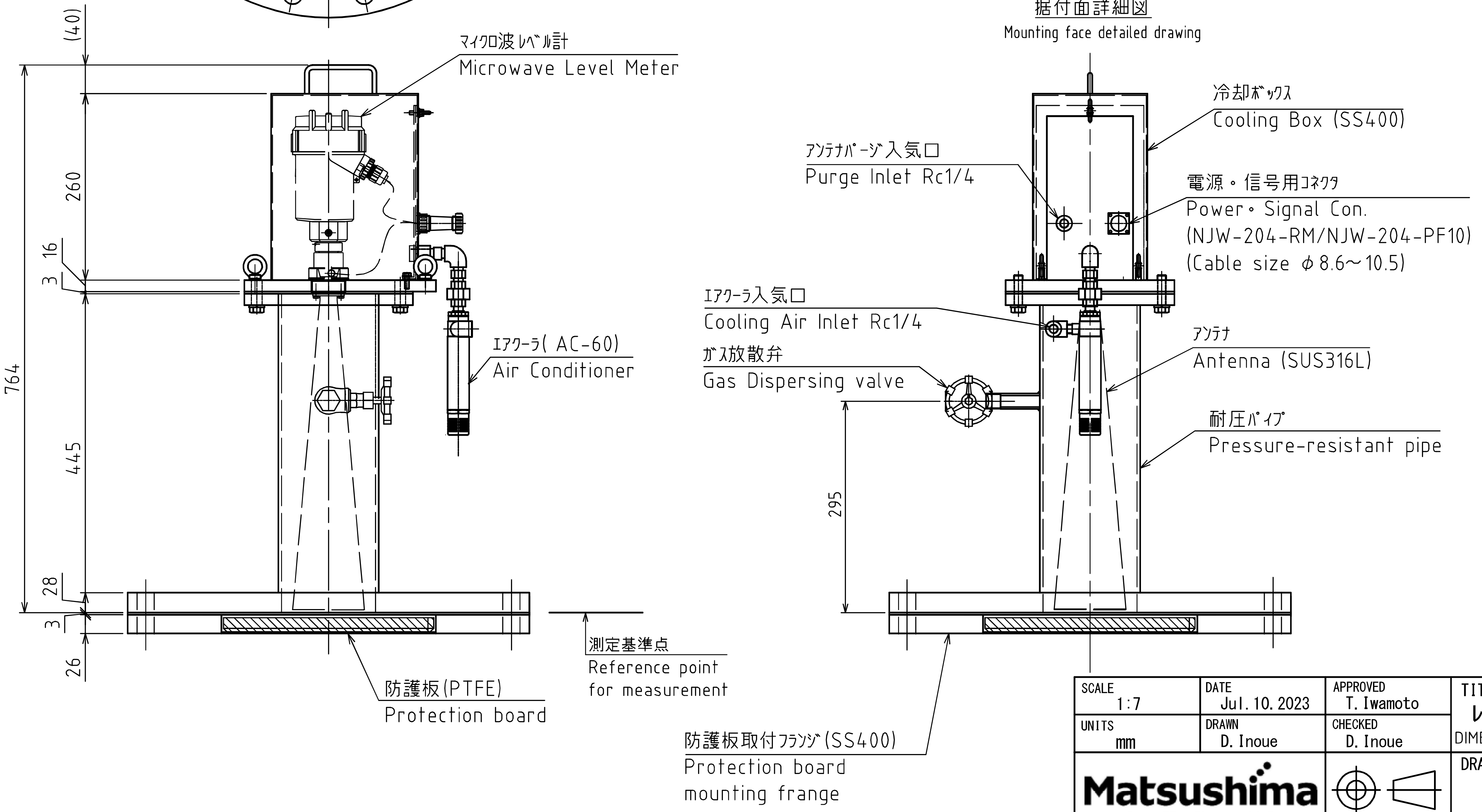

268
205
160
235


φ565
P.C.D510
16-φ27 取付穴
16-φ27 Mtg.Holes


TWIST
Matsushima
GRAPHIC COM 4
Esc
+
➡
Ent

LCD 調整ユニット（オプション）
LCD Adjustment unit (Option)

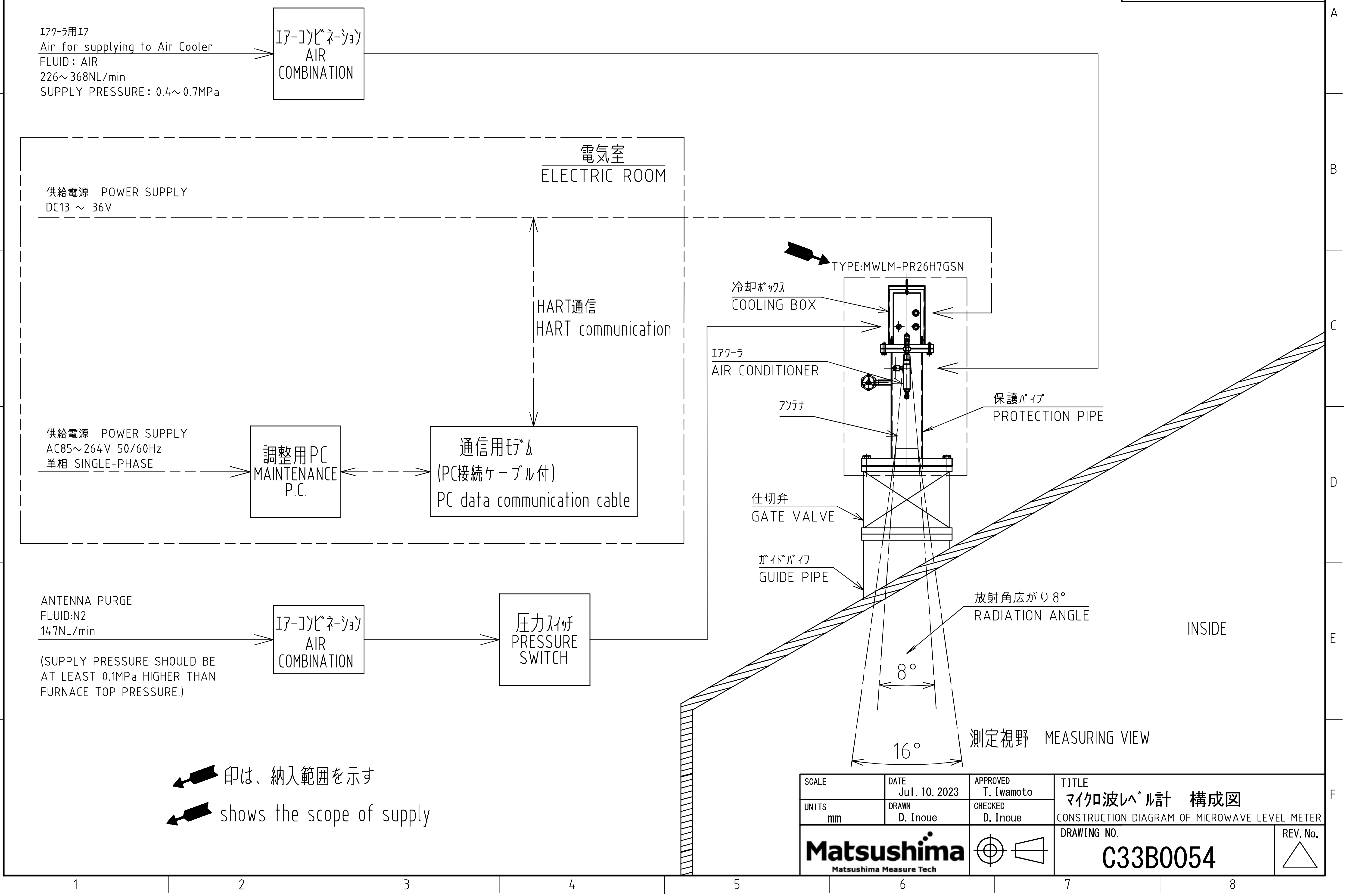

端子台
Terminal
HART I/Fチェック端子
HART I/F Check Terminal
+
-
1
2
LCD調整ユニット用電源
Power supply for LCD Adjustment Unit
M4アース端子
M4-Earth terminal
冷却BOX
Cooling Box
1
2
3
電源・信号用ｺﾈｸﾀ
Power・Signal Con.
電源/電流出力
Power supply /Current output
DC13～36V/DC4～20mA
(※3) (※4)


(40)
260
16
3
764
445
28
3
26
ﾏｲｸﾛ波ﾚﾍﾞﾙ計
Microwave Level Meter
ｴｱｸｰﾗ(AC-60)
Air Conditioner
測定基準点
Reference point for measurement
防護板(PTFE)
Protection board
据付面詳細図
Mounting face detailed drawing
冷却ﾎﾞｯｸｽ
Cooling Box (SS400)
ｱﾝﾃﾅﾊﾟｰｼﾞ入気口
Purge Inlet Rc1/4
電源・信号用ｺﾈｸﾀ
Power・Signal Con.
(NJW-204-RM/NJW-204-PF10)
(Cable size φ8.6～10.5)
ｴｱｸｰﾗ入気口
Cooling Air Inlet Rc1/4
ｶﾞｽ放散弁
Gas Dispersing valve
ｱﾝﾃﾅ
Antenna (SUS316L)
耐圧ﾊﾟｲﾌﾟ
Pressure-resistant pipe
295
防護板取付ﾌﾗﾝｼﾞ(SS400)
Protection board mounting frange

(※1) 必ず接地して下さい。（D種接地）
Please insure connection to earth.
(※2) ハウジングは310°範囲で回転します。
The housing can be rotated by 310° without the use of any tools.
(※3) LCD調整ユニットを取り付けるときは16V～36Vにして下さい。
When mounting the LCD adjustment unit, set it from 16V to 36V.
(※4) 推奨：2線シールドケーブル
Recommended cable:Two wire shield cable

SCALE 1:7	DATE Jul. 10. 2023	APPROVED T. Iwamoto	TITLE レーダー式マイクロ波レベル計外形図 DIMENSION DIAGRAM OF RADAR LEVEL TRANSMITTER
UNITS mm	DRAWN D. Inoue	CHECKED D. Inoue	
Matsushima Matsushima Measure Tech			DRAWING NO. C31B0324 — REV. No. △

REV. No. △	REV. DATE
REVISED	APPROVED
REMARKS	


ｴｱｸｰﾗ用ｴｱ
Air for supplying to Air Cooler
FLUID: AIR
226～368NL/min
SUPPLY PRESSURE: 0.4～0.7MPa
ｴｱｰｺﾝﾋﾞﾈｰｼｮﾝ AIR COMBINATION
電気室 ELECTRIC ROOM
供給電源 POWER SUPPLY
DC13 ～ 36V
HART通信
HART communication
供給電源 POWER SUPPLY
AC85～264V 50/60Hz
単相 SINGLE-PHASE
調整用PC MAINTENANCE P.C.
通信用ﾓﾃﾞﾑ
(PC接続ｹｰﾌﾞﾙ付)
PC data communication cable
ANTENNA PURGE
FLUID:N2
147NL/min
(SUPPLY PRESSURE SHOULD BE AT LEAST 0.1MPa HIGHER THAN FURNACE TOP PRESSURE.)
ｴｱｰｺﾝﾋﾞﾈｰｼｮﾝ AIR COMBINATION
圧力ｽｲｯﾁ PRESSURE SWITCH
TYPE:MWLM-PR26H7GSN
冷却ﾎﾞｯｸｽ
COOLING BOX
ｴｱｸｰﾗ
AIR CONDITIONER
ｱﾝﾃﾅ
保護ﾊﾟｲﾌﾟ
PROTECTION PIPE
仕切弁
GATE VALVE
ｶﾞｲﾄﾞﾊﾟｲﾌﾟ
GUIDE PIPE
放射角広がり8°
RADIATION ANGLE
8°
INSIDE
16°
測定視野 MEASURING VIEW

印は、納入範囲を示す

shows the scope of supply

SCALE	DATE Jul. 10. 2023	APPROVED T. Iwamoto	TITLE ﾏｲｸﾛ波ﾚﾍﾞﾙ計 構成図 CONSTRUCTION DIAGRAM OF MICROWAVE LEVEL METER
UNITS mm	DRAWN D. Inoue	CHECKED D. Inoue	
Matsushima Matsushima Measure Tech			DRAWING NO. C33B0054 / REV. No. △

付属品リスト
ACCESSORY LIST

No.	TITLE	DRAWING No.	RECITAL
1	Protection board × 2	ー	Material：PTFE
2			
3			
4			
5			
6			
7			
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9			
10			
11			
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16			
17			
18			
19			
20			

MESSRS.
E.S.T.No.
ORDER.No
ACCEPT.No. 23K0903

Matsushima
Matsushima Measure Tech

TITLE
付属品リスト
ACCESSORY LIST

△			
△			
△			
	Jul.11.2023	H.Matsuo	D.Inoue
No.	DATE	CHECK’D	APP’D