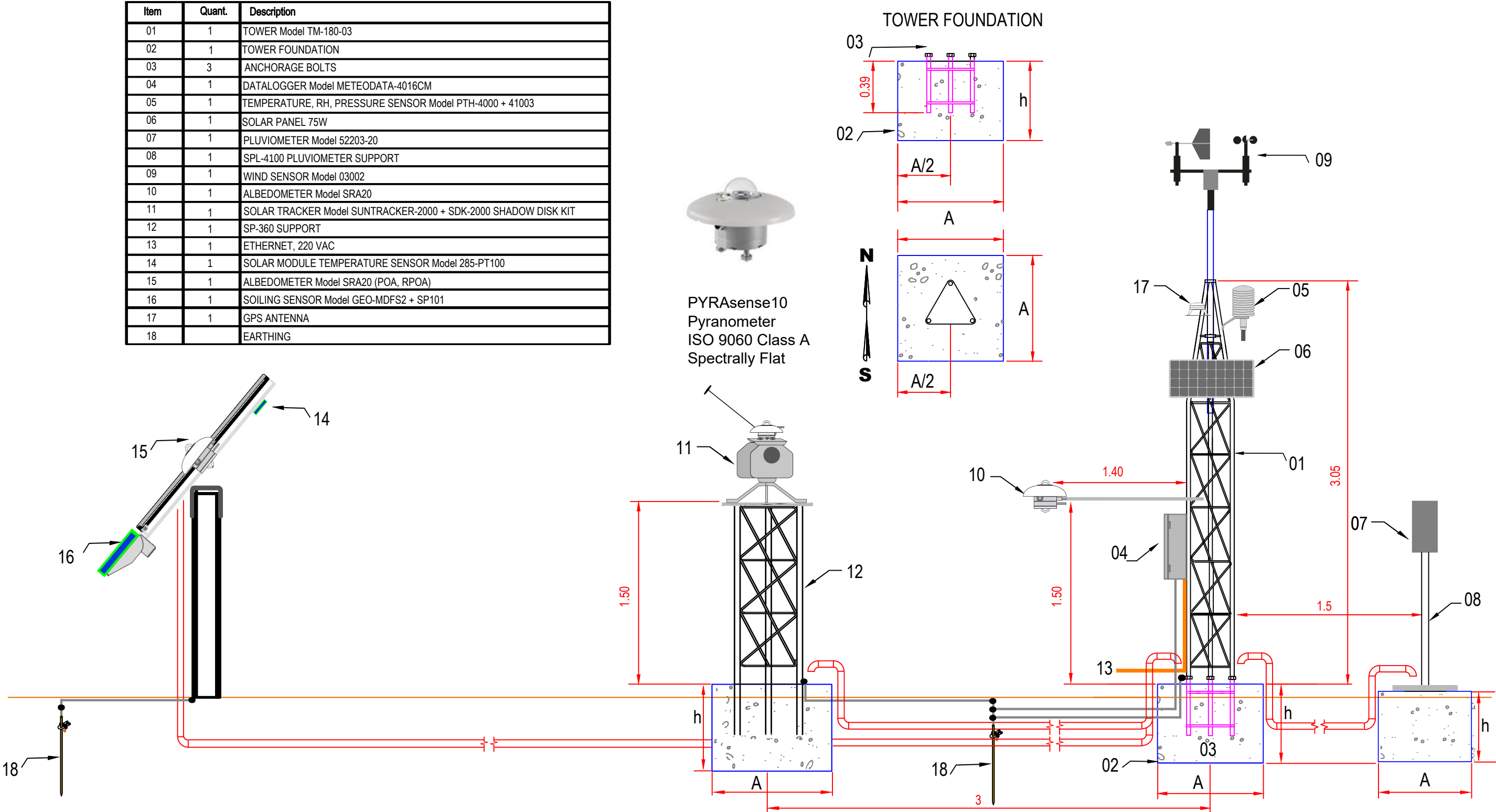


Solar Energy Measurement System & Meteo Station,
Installation Diagram for PV Solar Power Plants



GOLDEN TAURUS
INGENIERÍA,S.L.

Item	Quant.	Description
01	1	TOWER Model TM-180-03
02	1	TOWER FOUNDATION
03	3	ANCHORAGE BOLTS
04	1	DATALOGGER Model METEODATA-4016CM
05	1	TEMPERATURE, RH, PRESSURE SENSOR Model PTH-4000 + 41003
06	1	SOLAR PANEL 75W
07	1	PLUVIOMETER Model 52203-20
08	1	SPL-4100 PLUVIOMETER SUPPORT
09	1	WIND SENSOR Model 03002
10	1	ALBEDOMETER Model SRA20
11	1	SOLAR TRACKER Model SUNTRACKER-2000 + SDK-2000 SHADOW DISK KIT
12	1	SP-360 SUPPORT
13	1	ETHERNET, 220 VAC
14	1	SOLAR MODULE TEMPERATURE SENSOR Model 285-PT100
15	1	ALBEDOMETER Model SRA20 (POA, RPOA)
16	1	SOILING SENSOR Model GEO-MDFS2 + SP101
17	1	GPS ANTENNA
18		EARTHING



CABLES	
220 VAC	Dimensioned for max. 100W
Ethernet	CAT5 or higher
MODBUS RS-485	4 wires and screen, cross section 0.2 mm²
EARTHING CABLE LENGTH (L) m	CROSS SECTION (S) mm²
L > 25	S > 16
25 > L > 10	S > 10
L < 10	S > 6

TM-180-03

SPL-4100 / SPL-5200 Pluviometer Supports

SP-360 SUNTRACKER Support

FOUNDATIONS (cm)	
A	h
60	50
40	50
50	100

CLIENT:	PROJECT:	Drawn	Date	Name	Projection 1st Dihedral	Original
	SEMS	Checked	02/02/2023	TP		A3
		Doc No.	9785 0202	TP - MMR	REV	
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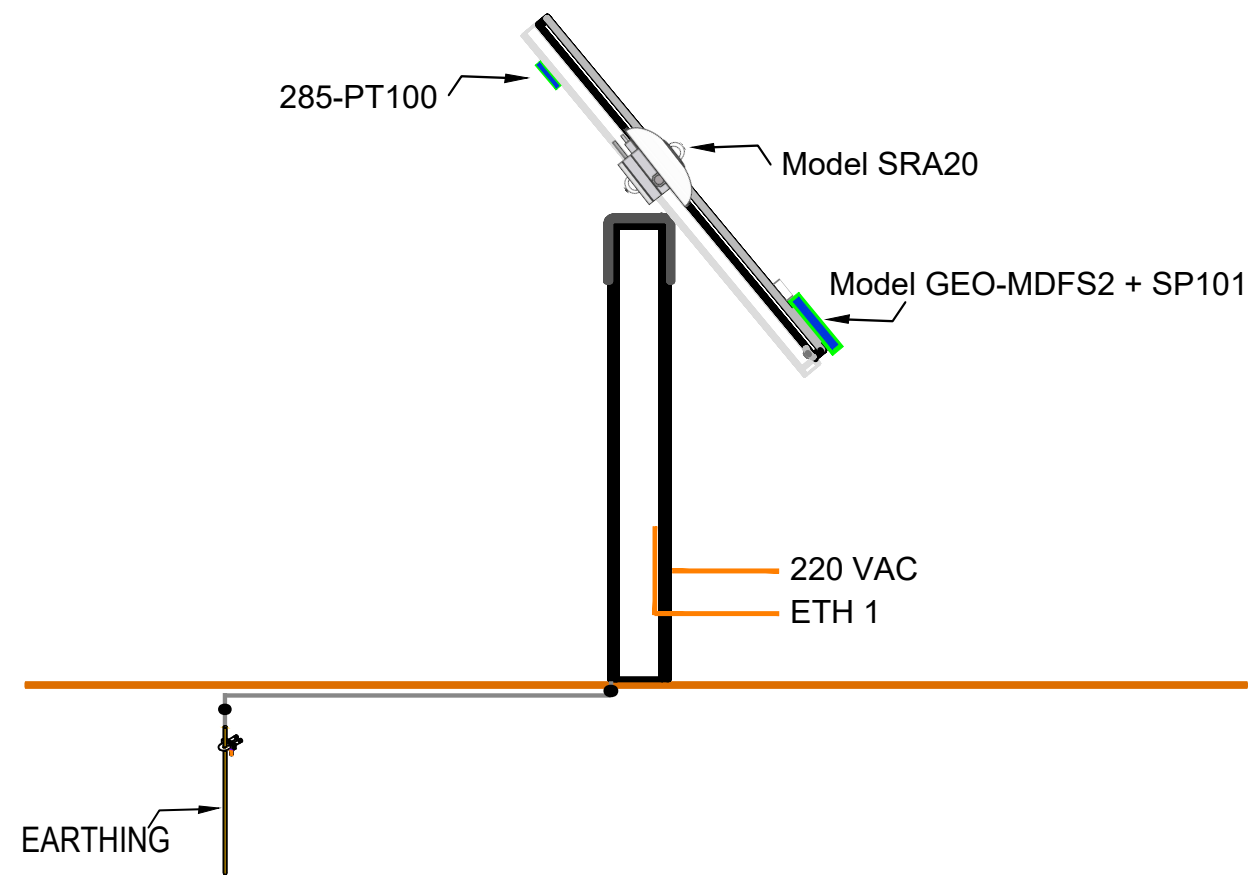
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Model SR20 (POA)

Model GEO-MDFS2 + SP101

The diagram shows a cross-section of a building facade. The facade is composed of vertical panels. The leftmost panel is labeled 'Model SR20 (POA)' and is a square panel with a circular feature. The next panel is labeled 'Model GEO-MDFS2 + SP101' and is a rectangular panel with a small square feature. The facade is divided into sections by vertical lines. The bottom section of the facade is a solid grey rectangle. The top section of the facade is a solid grey rectangle. The middle section of the facade is a solid grey rectangle. The rightmost section of the facade is a solid grey rectangle. The bottom section of the facade is a solid grey rectangle. The top section of the facade is a solid grey rectangle. The middle section of the facade is a solid grey rectangle. The rightmost section of the facade is a solid grey rectangle.

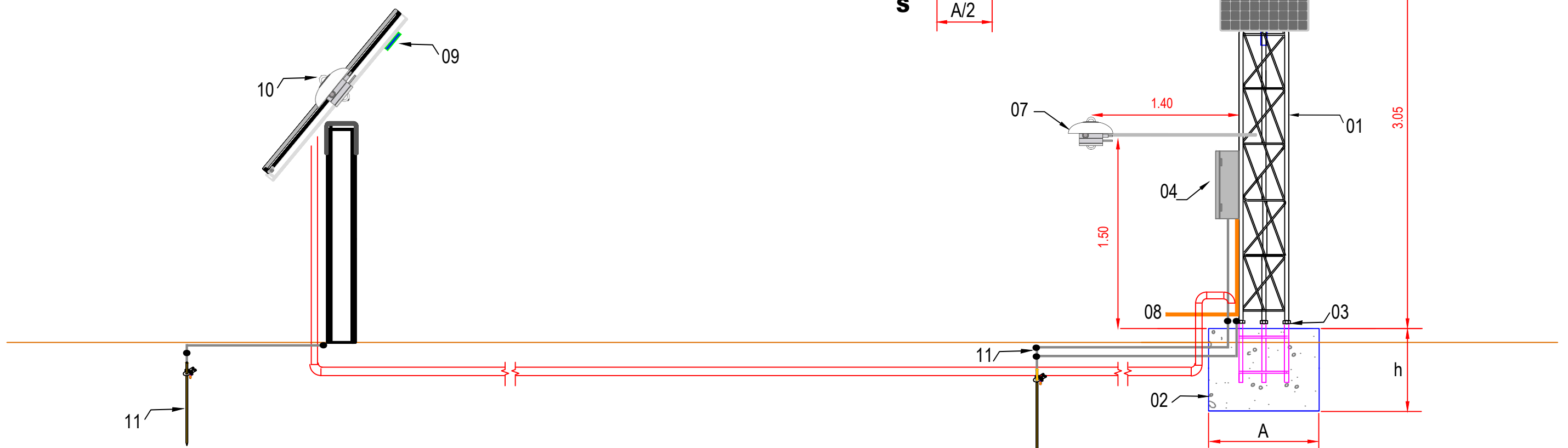
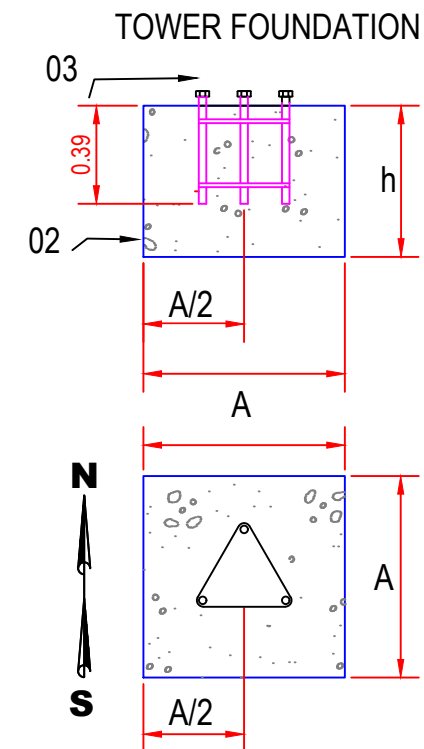
The diagram shows a cross-section of a sensor assembly. A large rectangular block is divided into five vertical sections of alternating shades of gray. A small dark gray square is located in the rightmost section, with an arrow pointing to it from the label "285-PT100". To the right of the block, a circular component with a central dot is shown, with an arrow pointing to it from the label "Model SR20 (RPOA)". Below this, a smaller rectangular component is shown, with an arrow pointing to it from the label "Model GEO-MDFS2 + SP101". A vertical line extends from the bottom of the block, passing through the "Model GEO-MDFS2 + SP101" component.



CLIENT:		PROJECT:				
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		Checked	02/02/2023	TP - MMR		
		Doc. No.	9785 0202		REV	
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SEMS MAIN STATION SENSORS MOUNTED ON TRACKER				Sheet N°: 02 of 05		
				SCALE:		
				NO SCALE		

**GOLDEN TAURUS
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Item	Quant.	Description
01	1	TOWER Model TM-180-03
02	1	TOWER FOUNDATION
03	3	ANCHORAGE BOLTS
04	1	DATALOGGER Model METEODATA-4016CM
05	1	TEMPERATURE, RH SENSOR Model STH-S331+ 41003
06	1	SOLAR PANEL 75W
07	1	ALBEDOMETER Model SRA20
08	1	ETHERNET, 220 VAC
09	1	285-PT100 SOLAR MODULE TEMPERATURE SENSOR
10	1	ALBEDOMETER Model SRA20 (POA, RPOA)
11		EARTHING



CABLES	
220 VAC	Dimensioned for max. 100W
Ethernet	CAT5 or higher
MODBUS RS-485	4 wires and screen, cross section 0.2 mm ²
EARTHING CABLE LENGTH (L) m	CROSS SECTION (S) mm ²
L > 25	S > 16
25 > L > 10	S > 10
L < 10	S > 6

	FOUNDATIONS (cm)	
	A	h
TM-180-03	60	50
SPL-4100 / SPL-5200 Pluviometer Supports	40	50
SP-360 SUNTRACKER Support	50	100

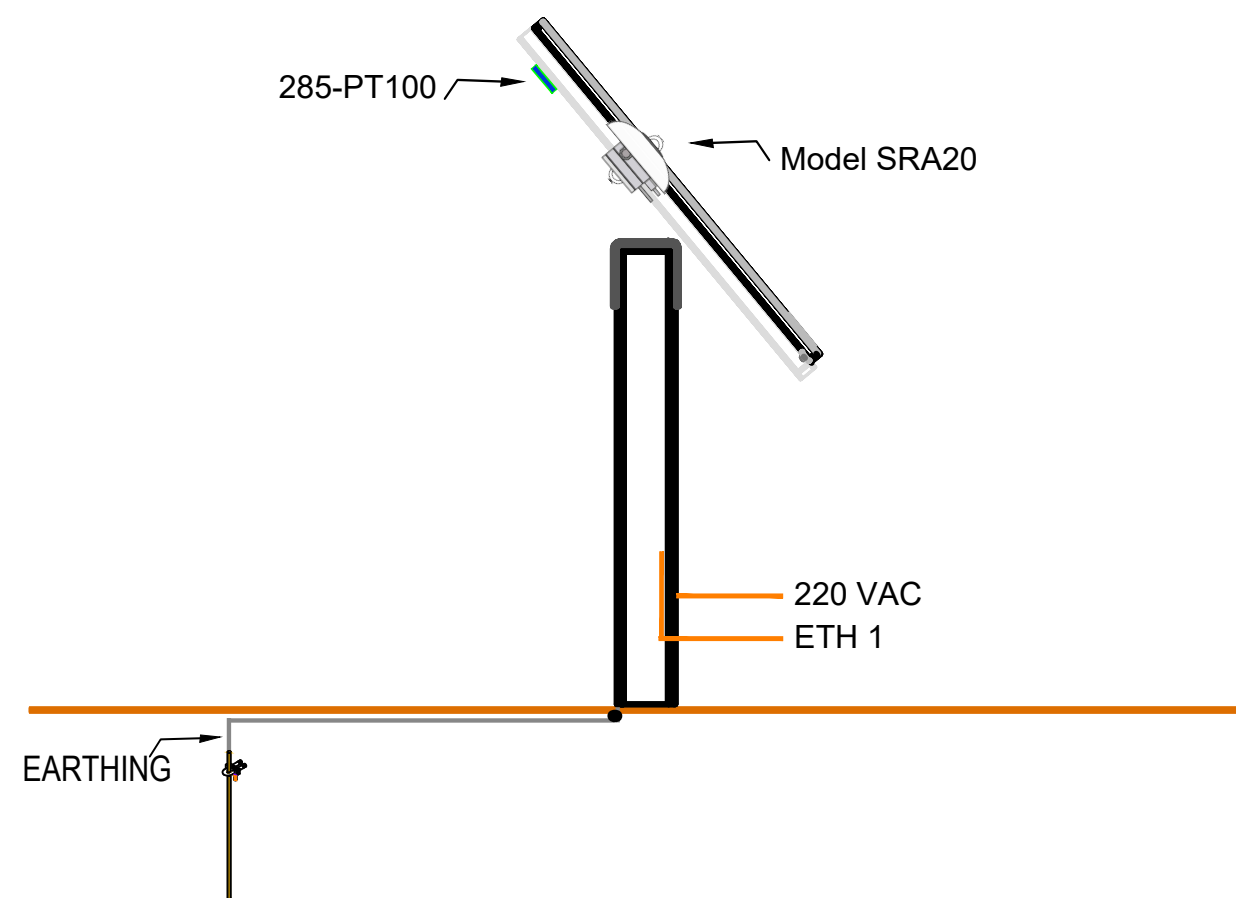
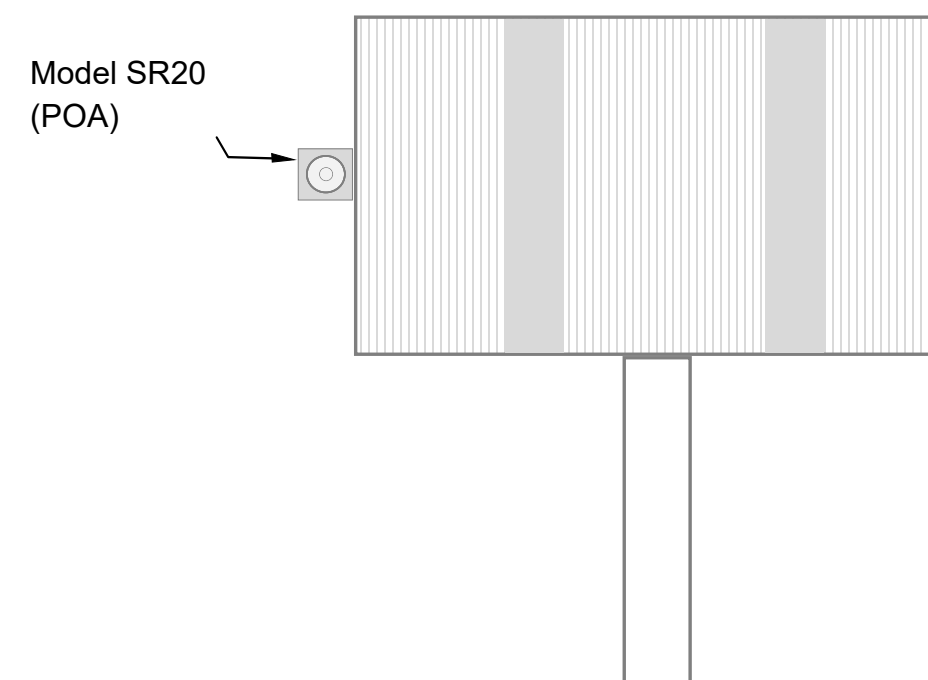
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		Doc No.	9785 0202		REV	02		
TITLE:					Sheet N°:	03 of 05		
SEMS-PV SECONDARY TYPE 1 STATION DETAILED INSTALLATION DIAGRAM					SCALE:		NO SCALE	

SEMS-PV SECONDARY TYPE 1 STATION - SENSORS MOUNTED ON TRACKER

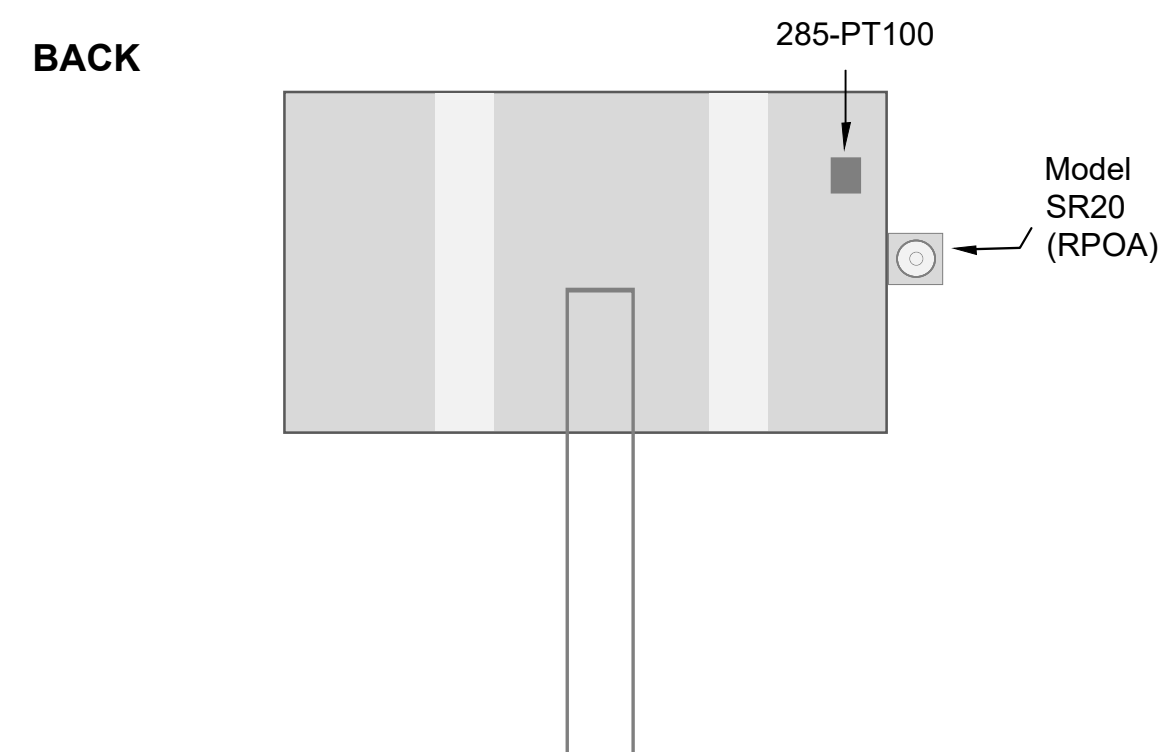


**GOLDEN TAURUS
INGENIERÍA, S.L.**

FRONT



BACK



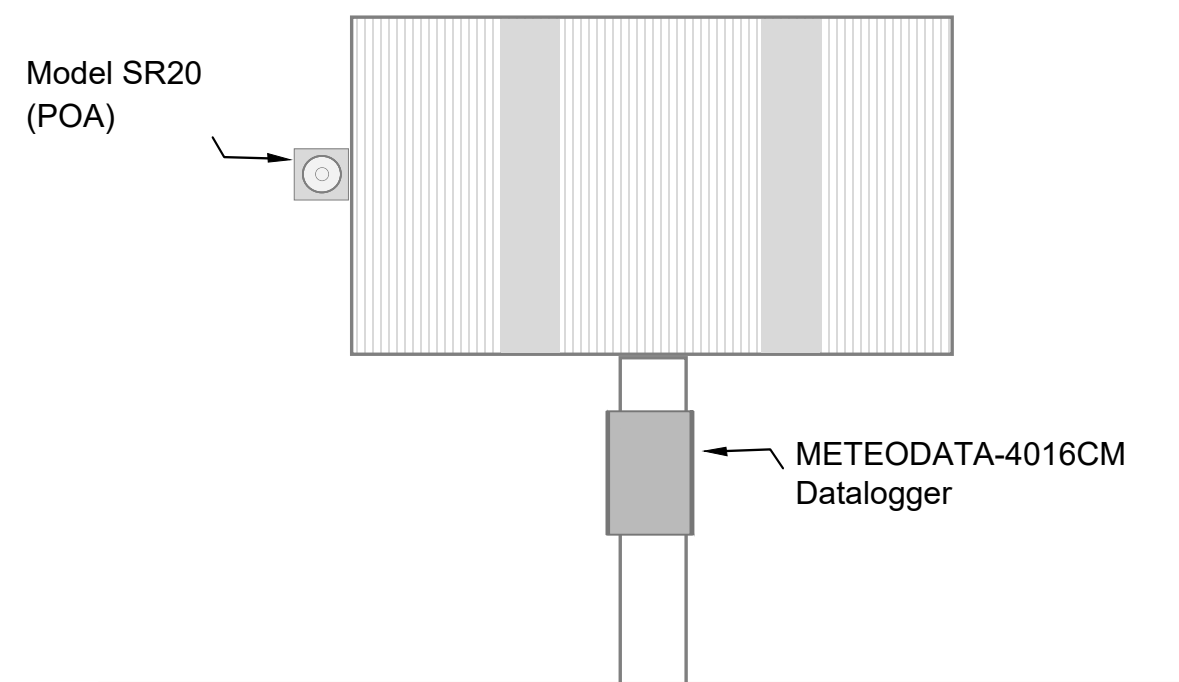
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SEMS-PV SECONDARY TYPE 1 STATION SENSORS MOUNTED ON TRACKER	02					
	Sheet Nº: 04 of 0					
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SEMS-PV SECONDARY TYPE 2 STATION - SENSORS MOUNTED ON TRACKER



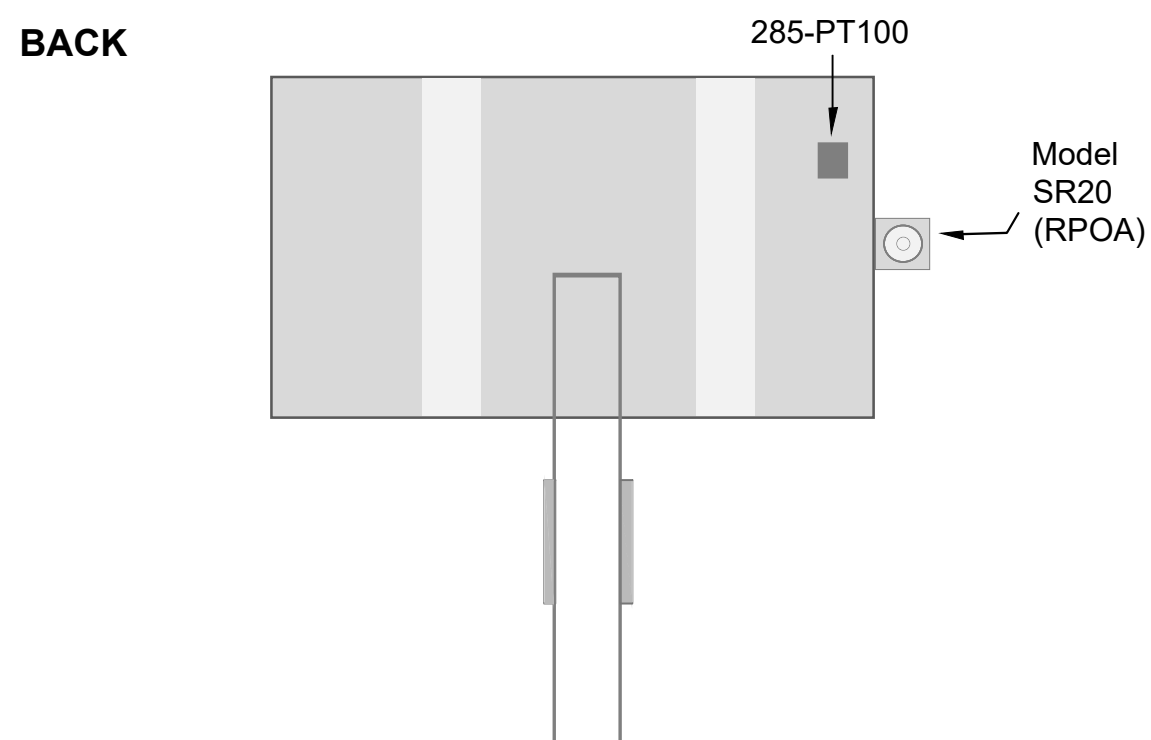
**GOLDEN TAURUS
INGENIERÍA, S.L.**

FRONT

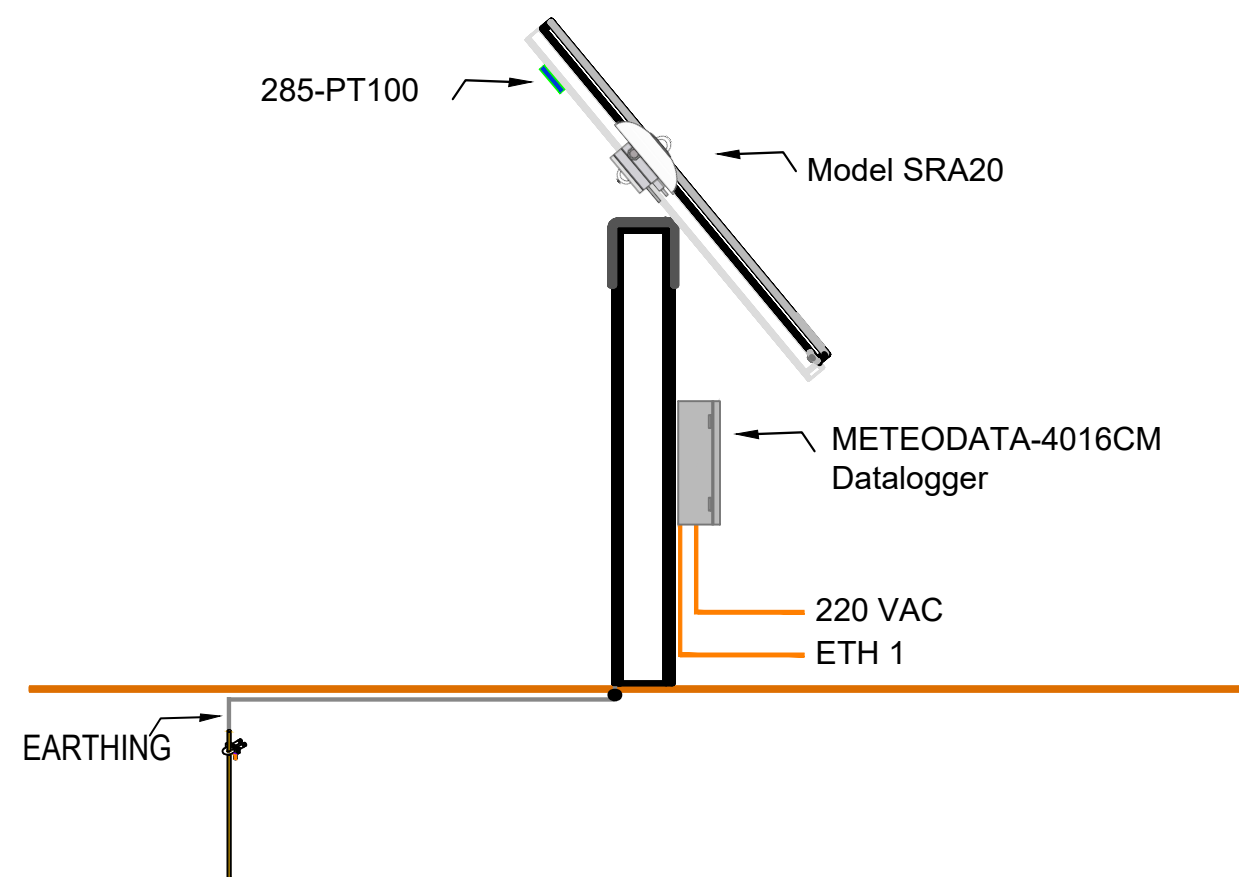


METEO DATA-4016CM
Datalogger

BACK



Model
SR20
✓ (RPOA)



Model SRA20

METEODATA-4016CM
Datalogger

- 220 VAC
- ETH 1

ETH 1

EARTHING

CLIENT:	PROJECT:				
	SEMS-PV		Date	Name	Projection 1st Dihedral  Original A3
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		Doc No.	9785 0202		
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					02
					Sheet N°: 05 of 0
					SCALE: NO SCALE

PROJECT:

SEMS-PV

TITLE:

SEMS-PV SECONDARY TYPE 2 STATION
SENSORS MOUNTED ON TRACKER

SENSORS MOUNTED ON TRACKER

Date _____

Drawn	03/03/2023
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Name

TP

Checked	02/02/2023
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Doc No.	9785 0202
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Projection
1st Dihedral

Projection
1st Dihedral



Original
A3

Original
A3

REV

02

Sheet N°: 05 of 0

SCALE:

NO SCALE