



SPECSHEET

Monitoring Enclosure

TOTAL STATION ENCLOSURE FOR AUTOMATED MONITORING PROJECTS

Summary

Total stations for automated monitoring systems that are permanently or semi-permanently installed on site are exposed to environmental changes and hazards. It is important to protect these assets throughout the monitoring project. An enclosure provides a protective structure that prevents damage from long-term exposure to weather and inhibits theft.



Image 1: A total station monitoring enclosure installed semi-permanently on a project site.

Trimble Monitoring Total Station Enclosure Components and Part Numbers

Graphic Item	Part Number	Description
1	5142100-01-MON	Total station instrument shelter
2	5142100-02-MON	Adapter for pillar mounting
3	5142110-MON	Adapter for pillar plate, pole and wall console
4a	5142120-01-MON	Adapter for pole mounting, up to 70 mm
4b	5142120-02-MON	Adapter for pole mounting, up to 110 mm
5	5142100-10-MON	Safety ring with lock
6	5141250-MON	Universal console 500 mm
7a	1510001-02-MON	Pillar plate
7b	1510011-02-MON	Pillar plate for screw mounting
7c	1510002-MON	Cover for pillar plate

1. Total station instrument shelter

The housing is designed for use with Trimble® S-series instruments. Instruments with a similar tilting axis height can be used as well. The field of sight can be extended by cutting the plastic tube. For mounting, the associated adapter is needed.

2. Total station instrument shelter

Ring including three spacers for screw mounting on top of a concrete pillar. The pillar diameter has to be larger than 350 mm.

3. Adapter for pillar plate, pole adapter and wall console

Ring with base protection plate for direct mounting at pillar plate with groove (PN 1510011-02-MON), at the pole adapter (PN 5142120-01-MON or PN 5142120-02-MON) or for mounting at the universal wall console (PN 5141250-MON). By mounting at the wall console three threads M8 have to be tapped. As an option the wall console can be ordered ready for installation of the housing.

4. Adapter for pole mounting

Plate with adapter for mounting on a pole. Available for different pole diameters: up to 70 mm (PN 5142120-01-MON) and up to 110 mm (PN 5142120-02-MON).

5. Safety ring with lock

The safety ring covers the mounting screws of the instrument housing to prevent easy access. The ring comes with a lock for added protection.

6. Universal wall console

Wall console made of robust 50 mm steel angle sections. The red coating makes it well visible and corrosion-resistant. The ground plate has a 5/8" thread for instrument mounting. The console will be mounted by using the provided high power dowels. As well M12 anchors can be used. As an option the 5/8" thread screw can be delivered separate. Size of ground plate 200 x 200 x 10 mm.

7. Pillar plate

Anodized aluminium plate diameter 140 mm. The three anchor bolts get embedded into concrete. A 5/8" thread in the center is used for instrument mounting. A cover plate (PN 1510002-MON) to protect the pillar plate is available. The pillar plates have a groove for the instrument housing. The pillar plate is also available for screw mounting (PN 1510011-02-MON).

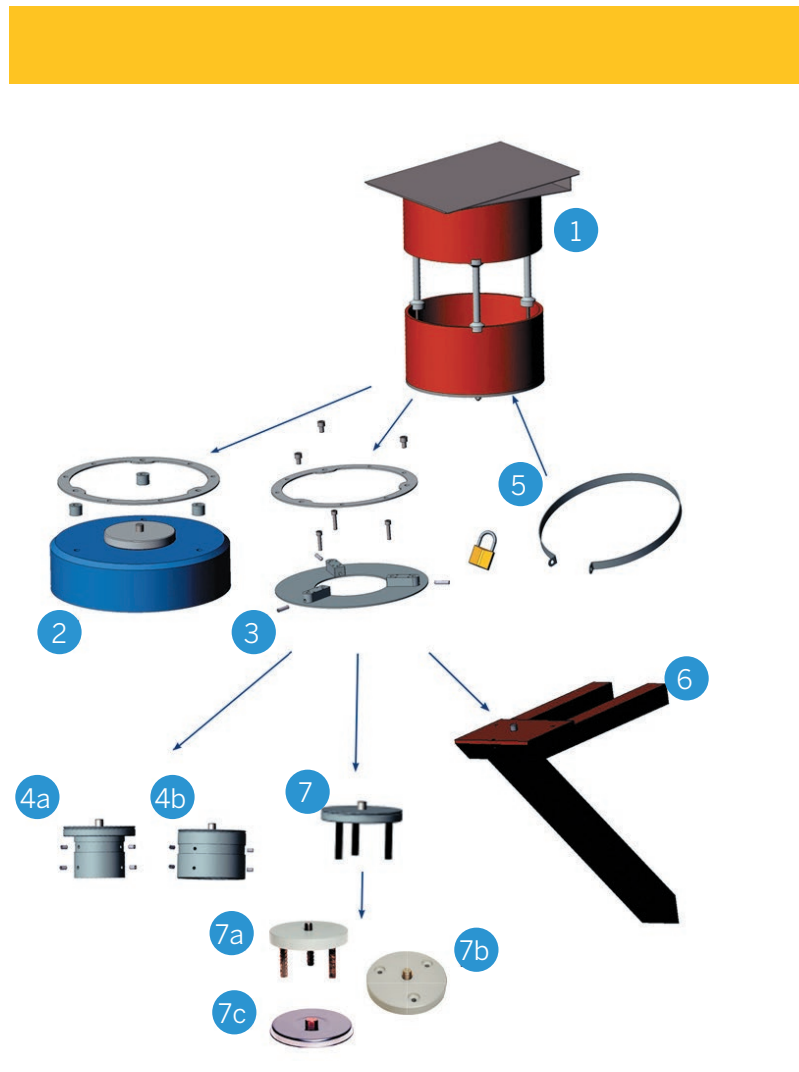


Image 2: Diagram of total station enclosure components.

Additional information

For more information contact your local Trimble distributor.

Contact your local Authorized Trimble Distribution Partner for more information

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