



# **TARI BASE**

**4 position base**

- ✓ 4 mounting positions
- ✓ 10-30 VDC wide input supply
- ✓ Two daisy chain ports
- ✓ Rugged IP65 construction
- ✓ Stainless steel bars for cable management



This TARI BASE is the backbone of the product range. It is a crucial system component. It provides mechanical mounting, stable and safe power, cable management and intermodule communication. It is the silent worker of your installation.

When installing a remote acquisition and telemetry system, stable power supplies are usually a problem. The BASE unit tackles this problem by providing a wide input galvanically isolated power supply that provides its modules stable constant power. It incorporates a strong overvoltage protection to safeguard your installation. The galvanic isolation provided by the BASE makes sure that your sensors are not destroyed or malfunctioning due to ground loops.

The BASE is constructed from one milled POM plate, making it strong and durable. The BASE can be mounted on its four corners by screw or bolt. In building a clean installation, cable management is an important aspect. Therefore we designed two stainless steel bars that are firmly fastened in the BASE. The bars run close to the M12 connection points both on the BASE and the MODULES. Depending on your cable strategy, you can then run the cables to the right or left side of the setup. The stainless-steel bars also provide mechanical impact protection to the installed MODULES and connectors. Every MODULE position has 4 x M5 inserts that allow the modules to be fastened to the BASE. When a MODULE is fastened it applies pressure on the O-ring that surrounds the TARI interface port, effectively sealing it from dust and moisture so that it can be installed in harsh environments.

For the TARI product range, MGB-Tech designed its own mating connector to interface the MODULES with the BASE. We call it the TARI interface port. On the MODULE side, the connector has 6 sturdy 1.6mm pins. On the BASE side the connector is built out of 6 receptacles with a minimal life of 1000 cycles. Every receptacle has 4 contact fingers inside that ensure a stable connection during vibrations and impacts.

The BASE has two M12 DAISY CHAIN connectors. These enable you to extend your setup with an extra BASE. This gives you an extra 4 MODULE mounting positions. Please note that in this setup every BASE has its own power supply.

#### Power supply

- 10-30 VDC input voltage range
- 1500 Vdc isolation voltage
- 30W maximum (below 55°C)

#### Connectors

- 1 x M12 A-code 3P male (POWER)
- 2 x M12 A-code 6P male (DAISY CHAIN)
- 4 x TARI interface ports

#### TARI interface port

- 1000 cycle minimum mechanical life

#### Mechanical

- 235.0mm x 297.0mm x 104.0mm (with bars)
- 235.0mm x 297.0mm x 30.0 mm (without bars)
- 285.0mm x 233.0mm 6.5mm mounting holes
- Weight 2.2Kg

#### Power consumption

- 0.14 W (No modules present)

#### Environmental

- Operational temperature -20°C +70°C
- IP65