

ICMoutlander

IP65 Protective Housing for ICMmonitor



Short Description and User Manual

Rev. e1.01

I Short Description

The protective housing is suitable for PDIX' ICMmonitor Portable, ICMcompact, AIACompact, and GISmonitor Portable.

The closed housing meets the requirements of Ingress protection class IP65 if the protective caps are attached to the respective connectors and the equalizing valve (at the front under the handle) is closed.

In addition, the box provides the optimal ambient temperature for portable devices thanks to a built-in temperature control using a Peltier element on the back.

II Operation

After the device has been connected to the power supply, the external fans start running for up to one minute with the housing lid closed. At the same time, the Peltier stand by LED of the connection panel is lit. The box is now ready for use.

As long as the lid is closed the integrated lid switch is activated. Hence, the internal fan is in operation and generates a continuous air flow in the housing, which is cooled or heated as required.

The Peltier element and the external fans work together as one unit. For this purpose, three modes are available:

- If the temperature inside the case drops below 15°C, the Peltier element is switched to heating mode.
- If the temperature is between 15°C and 35°C, only the internal fan is in operation.
- If the temperature in the housing rises above 35°C, the Peltier element is switched to cooling mode.

Due to the black housing color, shaded locations should be preferred.



Fig. 1: Lid switch



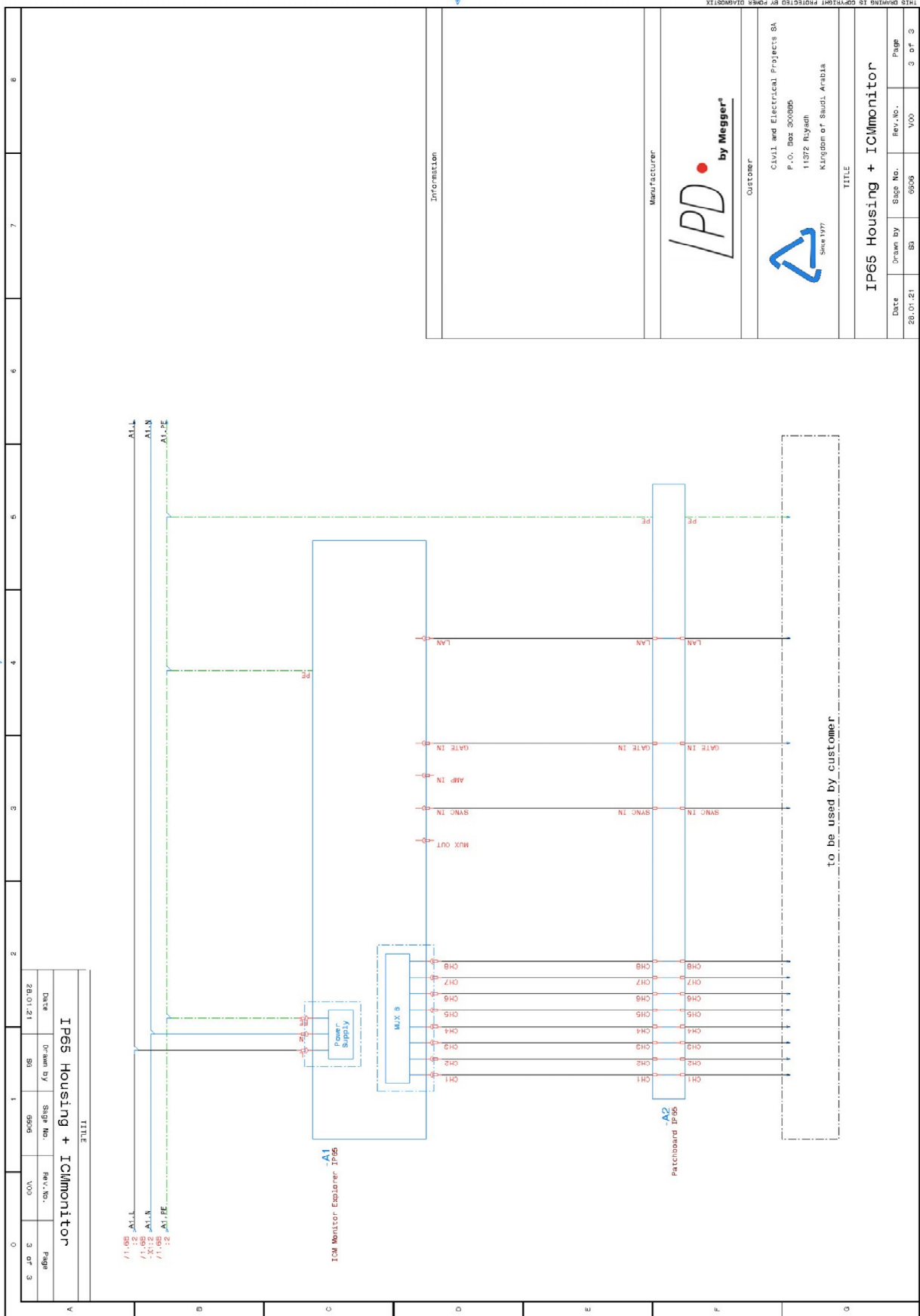
Fig. 2: Peltier element

If connectors are not used, the corresponding protective caps must be attached to ensure the continuous IP65 protection.



Fig. 3: Connection panel with protective caps attached to connectors

If a pressure equalization is to be established between the housing interior and the outside environment and the housing lid cannot be opened because there is negative pressure in the interior compared to the outside environment, the equalizing valve at the front under the handle can be used. The valve must be closed after use, in order not to endanger the protection class.



IV Technical Data

Mains supply:	100–240 V _{AC} , 50/60 Hz
Power requirements:	275 VA max. (depending on built in device)
Line fuse:	5 A (time-lag)
Interfaces:	LAN – TCP/IP Patchboard for eight channels (e. g. SYNC IN, GATE IN etc.)
Cooling/Heating device:	Peltier element, up to 150 W
Outside temperature:	-40 to 85 °C
Dimensions	
LxWxH:	680 x 570 x 380 mm
Weight:	Approx. 23 kg