

Delomatic – Multi-function system

Data PSM-1, Power Supply Module

4921240048D



PSM-1, Power Supply Module:

- *Designed as power supply for all other modules placed in the DGU*

Power Supply Module (PSM-1)

The Power Supply Module (PSM) supplies the special Delomatic modules with power. Some Delomatic modules require an external supply for safety manual functions. The PSM provides a galvanic insulation between the power source (e.g. battery) connected to the "SUPP." terminal and the Delomatic system.

The PSM is a switch mode power supply which generates $\pm 5V$ DC, $\pm 12V$ DC and $\pm 15V$ DC back plane supply for the Delomatic modules mounted in the rack. The back plane voltages are held at a constant level with regard to the total power consumption at the back plane when the supply voltage "SUPP." is within the specified limits.

The total power consumption of the PSM depends on the configuration in the rack as the modules have different power consumption.

Dimension: Width 40.7 mm (8 TE).

Weight: 0.45 kg (1.0 lb)

Supply: Nominal 24V DC, +30%, -25% (incl. peak-peak ripple)

Protection: The PSM is internally protected against voltage surges and transients. The nominal supply voltage may under no circumstances exceed 32V DC.

IMPORTANT: Short-term loss of power must be avoided, as it may damage the module.

External fuse: Max. 6A. Slow blow fuse.

Power consumption: Typ. 10W. Max. 15W (PSM's own power consumption)

LED: "POWER OK": Green LED "POWER OK"; PSM is able to obtain correct and sufficient power supply for the Delomatic modules.

"LOW POWER": Red LED "LOW POWER"; PSM is unable to supply the Delomatic modules (external supply below approx. 12V DC). The Delomatic system is disabled until the external power supply is above 18V (24V -25%). Below 4V DC the LED fades out.

Galvanic separation: Test voltage: 1.0kV – 50 Hz – 1 min. according to GL, LR and DNV.

Screw terminals: 2.5 mm² (single/multi-stranded)

Flammability: All plastic parts are self-extinguishing according to UL94-VO.

Environment: Temperature: Nominal: -10...+55°C
Operational: -25...+70°C
Storage: -40...+70°C

Climate: Class HSE, according to DIN 40040.

Protection: IP20 when mounted in a Delomatic rack.

Approvals: The Delomatic hardware is CE marked and type approved by LR, GL, DNV, ABS, BV, RINA and CNK.

Errors and changes excepted.



DEIF A/S, Frisenborgvej 33
DK-7800 Skive, Denmark

Tel.: +45 9614 9614, Fax: +45 9614 9615
E-mail: deif@deif.com, URL: www.deif.com

