

COMMANDER UTILITY

TEF 4500 GATEWAY

SAFE AREA

Subject to change without prior notice TPS2146 REV. A 30.06.2017



The Commander Utility is a general purpose control system designed by Tranberg for maritime applications. The system may include up to 7 control panels and up to 21 output modules, all connected to an industry-proven and robust twisted pair RS-485 network. The network cable may be hundreds of meters long, enabling the localization of the output modules and the power relays in a remote location.

An innovative and unique system architecture allows multiple identical panels on the network, which enables the users to turn on and off a specific output on different panels. The panels are backlit, dimmable and the Lexan front with text may be delivered with customer-specific text.

The system includes a continuous integrity-check with alarm in case of a non-responding (defective) module or a common alarm, such as a ground fault or missing power for the outputs. Alarm reset may be done by pressing the Alarm Acknowledge button on the panel or by providing a 24VDC impulse to the Alarm Reset input on the first output module in the network.

The Commander Utility system may also be connected to an external control system by using a gateway. The gateway will continuously send out status messages of all outputs, while also receive control commands that will turn on or off the various outputs. It is also possible to turn on or off an entire system, send an Alarm Acknowledge signal from the control system, and change the backlight intensity level of the panels.

TECHNICAL DATA

Operating temperature:	+5 to +70 deg. C
Enclosure protection:	IP 20
Dimensions (WxDxH):	120x120x80mm
Weight:	0.35 kg
Supply voltage:	18-32 VDC.
Communication:	RS-485. Cable impedance 100-250ohm. End resistors shall not be used.
VDR/SCADA interface:	Galvanic isolated. RS-422 38.400 bits/sec.
Protocols:	Proprietary NMEA-0183

FEATURES

- DIN rail mounting.
- Build-in snubber network which allows termination of a wide range of communication cable, 100-250ohm characteristic impedance. End resistors shall not be used.

APPROVALS AND STANDARDS

Tested according to IEC60945:2002

CE-marking

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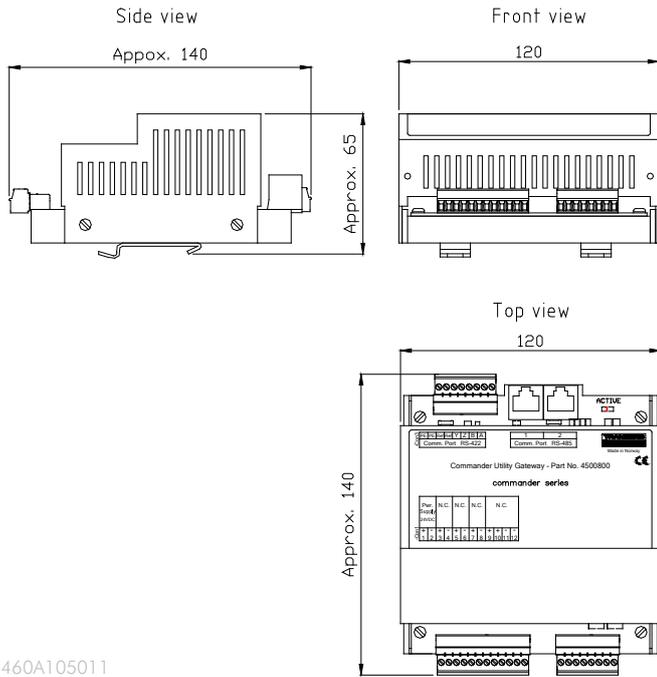
DESCRIPTION

Gateway for Commander Utility with VDR and SCADA

Part No.

4500800

DIMENSIONS



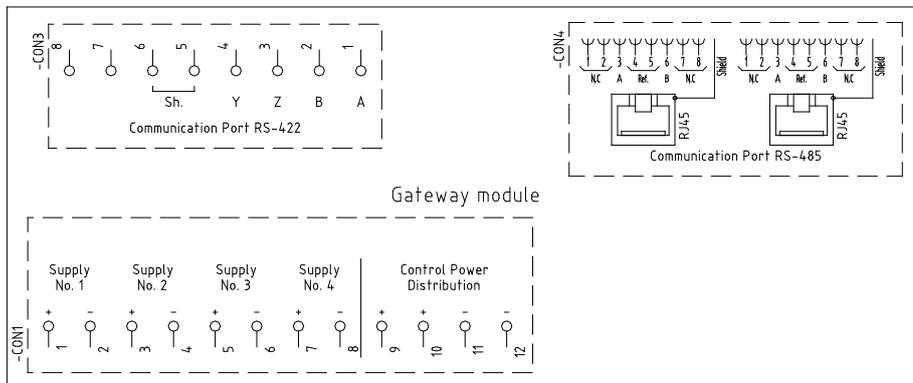
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ELECTRICAL SCHEMATICS

Option:

Galvanic isolated communication port of VDR or SCADA connection

Communication to other modules in the Commander system



Connections for up to 4 power supplies, 24VDC

Control power to other modules in the Commander system

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