

Communication Modules

CM485 and PC485

DESCRIPTION

The CM485 is an add-on module for use with NEMO models equipped with DI1 interface. It allows all parameters measured by the NEMO to be communicated to a remote point by RS485 2-wire serial link. The CM485 uses Jbus/Modbus protocol (although other protocols are available), and up to 32 units may be connected to the bus. Two CM485 modules connected back to back may also be used as a buffer when connecting more than 32 NEMO/XTEMC devices to a single bus.



CM485

DESCRIPTION

The PC485 is a module designed to convert RS485 signals to RS232 and vice versa. It may be used with the NEMO/CM485 where RS 232 communication is required.



PC485

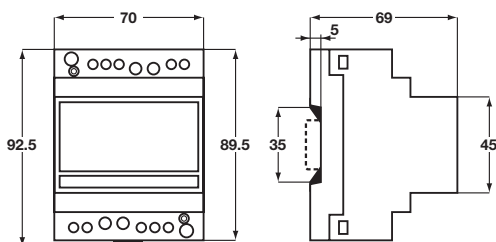
SPECIFICATIONS

Input	NEMO interface DI1, 3-wires
Transmission	Serial asynchronous
Protocol	JBUS/MODBUS compatible
Address	1 ... 255
Stop Bit	1
Parity Bit	none
Baud Rate	2400 (max 9600-programmable via NEMO)
Max. Distance	1200m to transmission point
LED	TX - transmission condition RX - receiving condition
Aux Supply	115V 50/60Hz (95...127V) and 230V 50/60Hz (192...253V) 24-48-110Vdc
Insulation	Impulse 5kV 1.2/50µs 0.5J (IEC 255-4) 2kV 50Hz/1 min – input and output/auxiliary 4kV 50Hz/1 min – all circuits/earth
Electromagnetic Compatibility	Fast transient burst (IEC 801-4) Severity Level 4

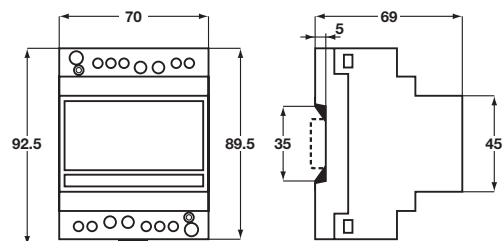
SPECIFICATIONS

Standard	RS232/RS485 - 2 Wire (Half Duplex)
Transmission	Serial asynchronous
Baud rate	Max 9600
LED	Tx – Transmission Condition Rx – Receiving Condition
Aux Supply	115V 50/60Hz (95...127V) and 230V 50/60Hz (192...253V) 24-48-110Vdc
Insulation	Impulse 5kV 1.2/50µs 0.5J (IEC 255-4) 2kV 50Hz/1 min – input and output/auxiliary 4kV 50Hz/1 min – all circuits/earth
Electromagnetic Compatibility	Fast transient burst (IEC 801-4) Severity Level 4

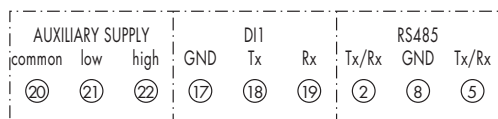
DIMENSIONS



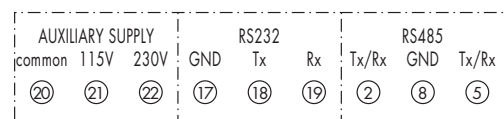
DIMENSIONS



WIRING DIAGRAMS



WIRING DIAGRAMS



DATA SHEET R104075