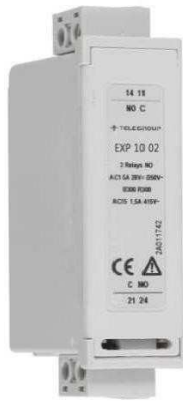


TELEGROUP

// ENG

// User Manual

// EXP1003-PCRL



Expansion module
n. 3 relè outputs

COMPANY WITH SOCIAL
ACCOUNTABILITY SYSTEM
CERTIFIED BY DNV GL
= SA 8000 =

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001:2015 =

COMPANY WITH
ENVIRONMENTAL SYSTEM
CERTIFIED BY DNV GL
= ISO 14001:2015 =

COMPANY WITH
SAFETY SYSTEM
CERTIFIED BY DNV GL
= OHSAS 18001 =

Expansion Module n. 3 additional relay outputs EXP 1003 User Manual



CAUTION!!

The managers of the company departments have the obligation, in accordance with current regulations, to carefully read the contents of this document and to make it read to the suppliers and maintenance personnel, for the parts that are theirs. The time spent for this purpose will be largely rewarded by the correct operation of the module and its use in safety conditions

This instruction manual is an integral part of the expansion module and is intended to provide all the information necessary for:

- Know the product and its operation;
- Know the operational methods and the limits of use envisaged;
- The correct installation;
- Proper use and in safe conditions.

Before any intervention on the module, disconnect the voltage from the measurement and supply inputs, from the relay outputs where present and short-circuit the current transformers.

- The manufacturer assumes no responsibility for any use not in accordance with this module instruction manual.
- The product described in this document is susceptible to changes or modifications at any time. The descriptions and data in the catalog can not therefore have any contractual value.
- Clean the appliance with a soft cloth, do not use abrasive products, liquid detergents or solvents.

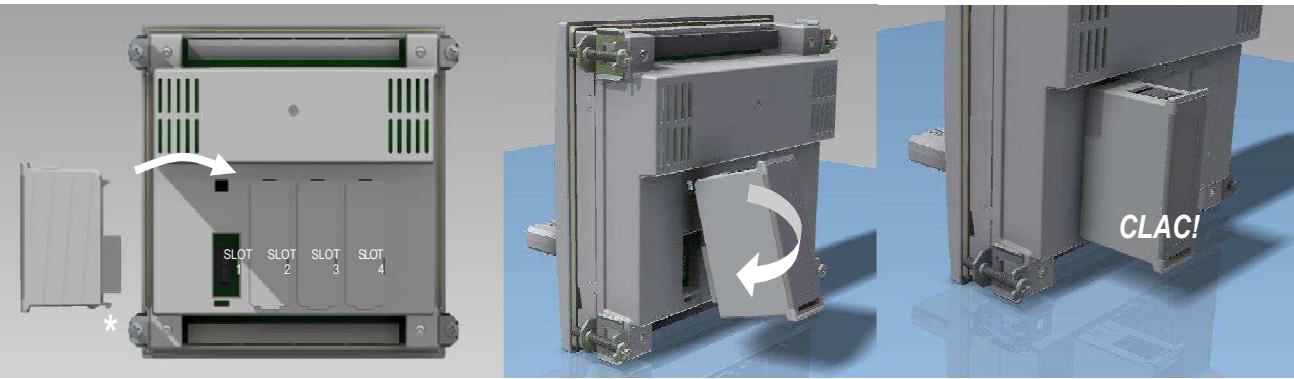
Introduction

The EXP 1003 expansion modules have been designed and developed to enhance the connectivity, I / O, storage and analysis functions of the regulator to which they are connected. The EXP 1003 module provides three output relays with a 440VAc / 1.5A NO contact.

The connection will be made simply by inserting the expansion module into the regulator in the special rear compartment; the controller will automatically perform the recognition. The module parameters are set very simply in the configuration menu in the controller.

The EXP 1003 module can be combined with a Telegroup product equipped with an expansion housing. Compatibility follows the following table:

Device	Device Rev. SW
PCRJ8 (only slot 1 e 2)	>= 07
PCRL8	>= 00
PCRL5	>= 01
PCRL3	>= 01

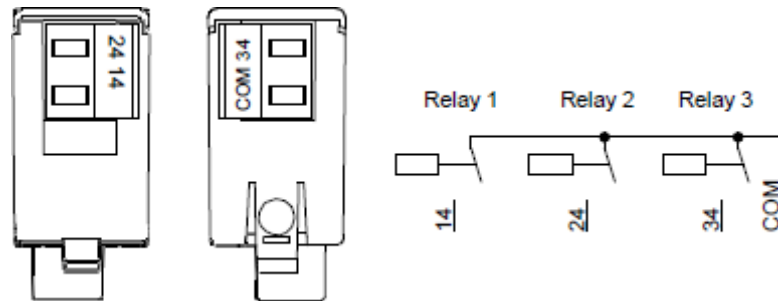


How to connect the module to the compatible controller

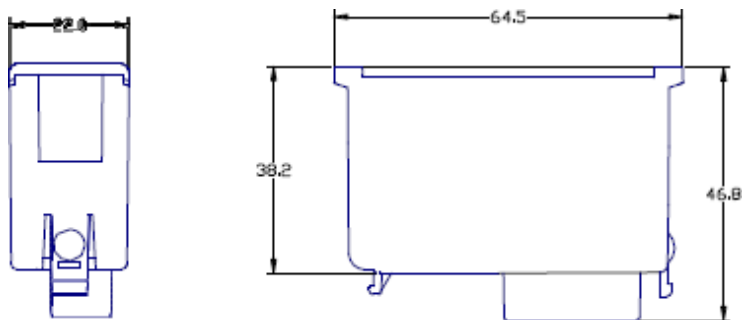
1. First of all, remove the voltage to avoid electrocution
2. Remove the removable terminal block.
3. Remove the cover cap of the slot where you want to insert the expansion.
4. Insert the EXP 1003 module as shown in the photo above.
5. Reconnect the removable terminal block.
6. Powering the controller will recognize the new expansion module.

NOTE: to remove the module, remove all dangerous voltage and repeat the operations from point 5 to point 2 in the opposite direction. Press in the point indicated by 1 to disengage the module.

Wiring Diagram



Overall dimensions



Technical features

Supply		
Supply Voltage	5V= (supplied by main instrument)	
Supply Current	150mA	
Power Consumption/dissipation	0,75W	
Output Relays		
Contact Type	3 x 1 NO + contact common	
Rated Operating voltage	440V~	
IEC/EN 60947-5-1 designation	AC1 4A-250V~ 4A 30V= AC15 1,5A 440V~	
UL Rating	B300 30V= 1A Pilot duty 440V~ 1,5A Pilot duty	
Electrical life	10 ⁴ ops	
Mechanical life	30x10 ⁶ ops	
Insulation Voltage		
Rated Insulation Voltage Ui	440V~	
Type of Test	U _{imp}	AC
Between Base devices and outputs	7,3kV	4kV
Output relays connection		
Terminal Type	Plug in/ removable	
Number of terminals	2 + 2	
Cable cross section (min e max)	0,2...2,5 mm ² (24-12 AWG)	
UL Rating cable cross section (min e max)	0,75. 2.5 mm ² (18-12 AWG)	
Tightening torque	0,5 Nm (4,5 LBin)	
Minimum cable temperature	75°	
Base product connection		
Terminal type	Plug in connector	
Ambient operating conditions		
Operating temperature	-20 - +60°C	
Storage temperature	-30 - +80°C	
Relative humidity	<80%(IEC/EN 60068-2-70)	
Maximum pollution degree	Degree 2	
Overvoltage category	3	
Altitude	≤2000m	
Climatic sequence	Z/ABDM (IEC/EN 60068-2-61)	
Shock resistance	15g (IEC/EN 60068-2-27)	
Vibration resistance	0.7g (IEC/EN 60068-2-6)	
Housing		
Dimensions	64,5mmx38,2mmx22mm	
Mounting	For inclusion in the EXP plug in expansion slot	
Material	Polyamide RAL 7035	
Degree of protection	IP20	
Weight	85g	
Certifications and compliance		
Certifications obtained	cULus	
Reference standards	IEC/EN 61010-1, IEC/EN 61000-6-2 IEC/ EN 61000-6-3 UL508 e CSA C22.2-N°14	
UL « Marking »	Use 60°C/75°C copper (CU) conductor only AWG Range: 24 - 12 AWG stranded or solid Field Wiring Terminals Tightening Torque: 4.5lb.in	

INFORMATION AND TECHNICAL ASSISTANCE

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