

// ENG
// User Manual
// EXP1030



Expansion module RS232 serial port

Interface Expansion Module EXP 1030 (RS232) 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.

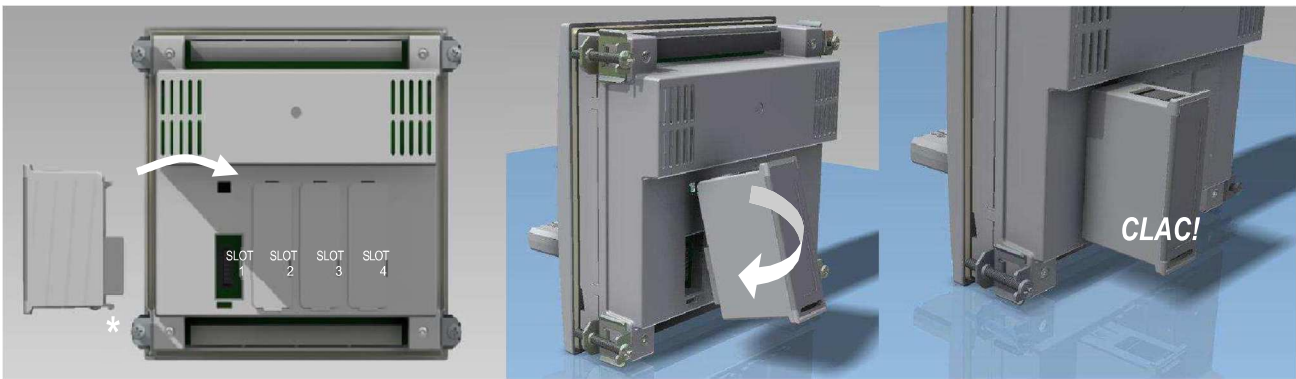
Introduction

The EXP 1030 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 1030 module provides serial RS232 interface module.

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 1030 module can be combined with a Telegroup product equipped with an expansion housing. Compatibility follows the following table:

| Apparecchio base | Rev. SW apparecchio base |
|------------------|--------------------------|
| PCRJ8 | ≥ 04 |



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 1030 module as shown in the photo above.
5. Reconnect the removable terminal block.
6. Powering the controller will recognize the new expansion module.

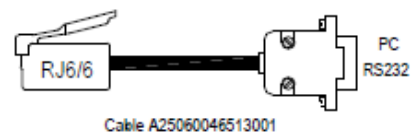
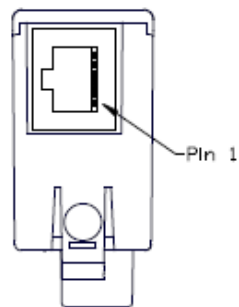
NOTE: to remove the module, remove all dangerous voltage and repeat the operations from point 5 to point 2 in the opposite direction. Press in the point indicated by 1 to disengage the module.

Parameter programming

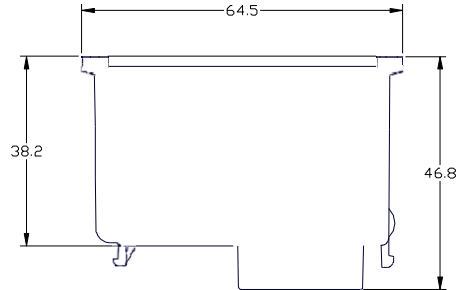
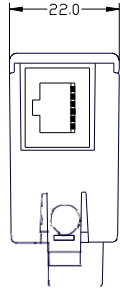
For the configuration of the module parameters, refer to the PCRJ8 instrument manual downloadable from the site <http://www.telegroup.it> in the download area relating to low voltage industrial power factor correction.

Wiring diagram

| RJ11 6/6 connection | |
|---------------------|---------|
| Pin | Line |
| 1 | GND |
| 2 | RX (PC) |
| 3 | TX (PC) |
| 4 | NC |
| 5 | NC |
| 6 | NC |



Mechanical dimensions [mm]



| Supply | |
|---------------------------------------|---|
| Supply Voltage | 5V= (supplied by main instrument) |
| Supply Current | 30mA |
| Power Consumption/dissipation | 0,15W |
| Serial Interface RS232 | |
| Connection | RJ11 6/6 |
| Baud Rate | Programmable 1200-38400 bps |
| Insulation Voltage | |
| Rated voltage impulse withstand Uimp | 7,3 kV |
| Power Frequency withstand voltage | 4 kV |
| Connection to standard product | |
| terminal type | Plug in connector |
| Ambient operating conditions | |
| Operating temperature | -20 - +60°C |
| Storage temperature | -30 - +80°C |
| Relative humidity | <90%(IEC/EN 60068--2-70) |
| Maximum pollution degree | Degree 2 |
| Overvoltage category | 3 |
| 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 HAL 7035 |
| Degree of protection | IP20 |
| Weight | 55g |
| 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 only copper conductors (CU) 60°C/75°C |

**INFORMATION AND
TECHNICAL
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