T2 RS485

T2 MODBUS RTU MASTER KEYBOARD

The T2 keyboard was created for all applications where a compact LCD display is required in size, but capable of providing a complete set of information to the user with a simple, clear and guided software through the following communication languages: English, Italian, Spanish, French, German, Russian. T2 can be used for civil applications, with high-quality aesthetic finishes, up to the most demanding industrial environments with robust IP67 protection. The keyboard communicates via Modbus RTU and this allows to reach, even over long distances, controls mounted on machines in uncomfortable or inaccessible places. With the display oled, T2 allows to modify and monitor any parameter down to -30°C of environment temperature. T2 has a relay which can be used to highlight an alarm via an indicator light mounted for example on a signal tower.

Recessed versions

The standard series provide the following characteristics:

- Sturdy fiberglass / aluminum structure.
- 16x2 characters display (dim.56x12mm) protected by polycarbonate with 2mm thick and UV treated.
- Keyboard with 4 keys, protected by a UV treated polyester plate.
- 1 configurable relay.
- Direct power supply from FAE SmartEC and PTec2 control up to 250m, over necessary 24Vac/dc power supply 1VA dedicated cat.II.
- Working temperature: -30T55 ° C, 90% RH non condensing.
- Storage temperature -40T80 ° C.
- Humidity max 90% without condensation, average value in the year max 70%.
- Reference standards applied: EN60730-1, EN61000-6-2, EN61000-6-3.
- Software structure Class A.
- Pollution degree 2.
- High quality spring terminals.

Pannel version IP40

T2 can be request also with:

- Weekly internal clock for the implementation of dedicated functions.
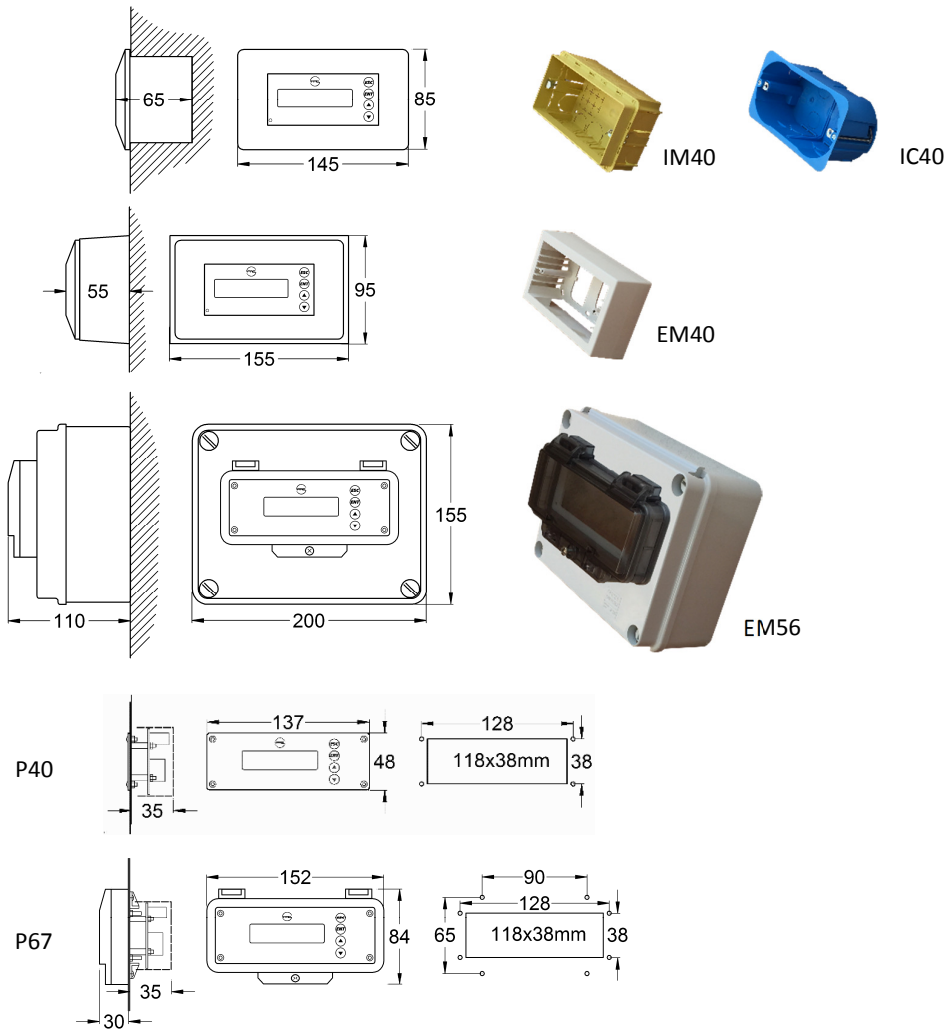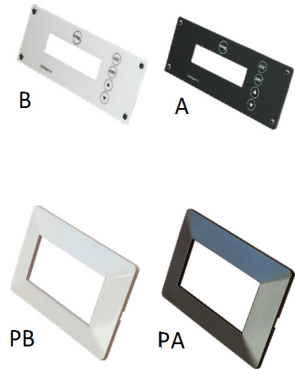- NTC sensor on panel for reading the temperature.

Pannel version IP67

Code:

Position   **1**   **2** **3** **4**   **5**
             T2   F   A EM56 XX   *(example of code)*

Pos. 1 :   Model   T2 = standard keyboard

Pos. 2 :   Power supply   F = 24Vdc/24V~ 50/60Hz (4VA - necessary over 250m)

Pos. 3 :   background   B = white, A = anthracite, X = customized

Pos. 4 :   Type of application   IM40 = recessed wall box IP40
                                     IC40 = recessed box on plasterboard IP40
                                     EM40 = external wall box IP40,
                                     EM56 = externall wall box IP56,
                                     P40 = for pannel IP40
                                     P67 = for pannel IP67

Pos. 5 :   Variations/additions   PB = White plate, PA = anthracite plate
                                     ("PA" e "PB" only for IM40-IC40-EM40 version,
                                     XX = no request

Wiring notes:

You can connect T2 directly to the terminals T1+ e T1- of a FAE controller (terminals for Serial, Modbus - slave).
If these terminals are already used, the S3 interface (which will replace the internal keyboard) must be installed on the FAE control to add a Modbus - slave port for the T2 keyboard.
For the serial line use a two-wire twisted pair (AWG20 / 22) with a characteristic impedance of 120ohm and if possible of cat.5, stripping length 8mm. Avoid running the serial transmission cable in parallel with cables that can generate interference. Alternatively, make sure that they are at least 0.3 meters apart or use shielded cable by connecting the shield to earth only on the control side. Do not use the shield as a ground wire (0V). For the relay use wires with section 0.2 ÷ 1.5mm², stripping length 9mm.