

ModPQ5: Q5 TAG programmer on Contatto

bus

ModPQ5 module is a Q5 TAG programmer and it is a complement of the Hotel System and of the SYSCA2 access control system. The module features a single input address 1-channel 16-bit.

The LED on the programmer reports the following diagnostic information:

LED	Description
Continuous green blinking	Programmer supplied and ready
Alternated red/green blinking	Programmer failure
Single red blinking, duration of the operation	Writing in progress in progress

Information reported on the bus

ModPQ5 programmer takes, on the **CONTATTO** bus, a single input address made by 1 channel, reporting some digital information. The address must be assigned by the programmer FXPRO or FXPRO2 and must be in the range 1 to 127. The input points of ModPQ5 programmer have the following meanings:

Point	Description
1	Activated when a TAG is placed on the programmer, deactivated when the TAG is removed
2	Activated when the TAG has been correctly programmed, deactivated when the TAG is removed or if an error occurred
3	-
4	-
5	-
6	-
7	-
8	-
9	Activated if error '0': invalid TAG
10	Activated if error '2': error in the request
11	Activated if error '4': invalid TAG data
12	Activated for unknown error
13	-
14	-
15	-
16	Activated if the TAG reader does not answer

Using of ModPQ5 programmer

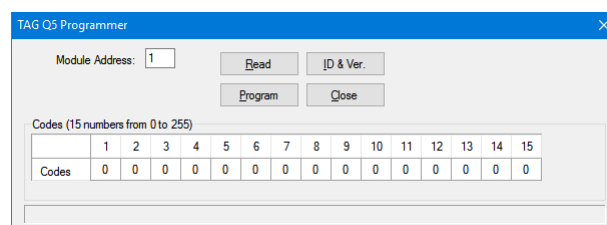
The ModPQ5 programmer should be used within the **DUEMMEGI** Hotel or access control systems. The management must be performed by an appropriate supervisor, for which there are various possibilities of choice; contact **DUEMMEGI** for more information.

At the controller level (MCP XT or MCP 4) just add to the program a configuration directive for each installed ModPQ5; for example, for a ModPQ5 with address 32, this directive is:

MODPQ5 = (132)



The development program MCP IDE provides a configuration panel allowing to perform some tests on the programmer installed in the plant. From the main menu of MCP Ide, select Programming, then Modules Configuration and finally MODPQ5. The following window will be shown:



Enter the address of ModPQ5 programmer to be tested; the Read button allows reading the 15 bytes stored in the TAG placed on the programmer. The Program button will send the displayed 15 bytes to the TAG. If an error occurs, a related message will be shown on the status bar of the same window.

For advanced users

The following is useful to anyone who wants to develop a TAG read/write tool by ModPQ5, acting on the RAM locations of the programmer itself.

To read the TAG, put it on the programmer; the RAM locations 0x100 .. 0x10E of ModPQ5 module will contain the 15 bytes written into the tag.

Notes:

- if Point 1 is activated, the RAM locations 0x100..0x10E contain the 15 bytes read from the TAG
- if Point 1 is not activated, the RAM location 0x100..0x10E contain zero

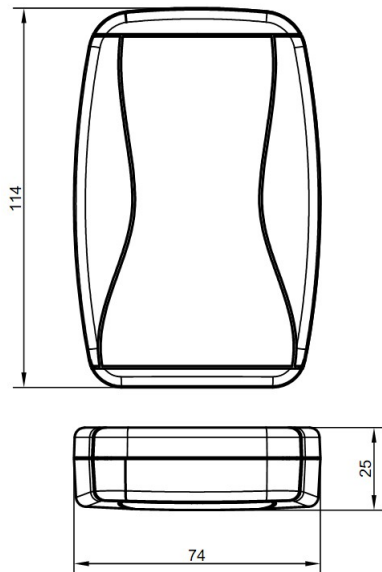
To write the TAG, put it on the programmer; write the 15 desired bytes into RAM locations 0x120 .. 0x12E of ModPQ5 module; then write any value to the location 0x12F (even the same one that is already in that location, included zero): as a result of this writing, the bytes 0x120..0x12E will be written to the tag.

Note: a TAG can be fully programmed by a single 16-byte writing to 0x120..0x12F locations.

Technical characteristics

Power supply ModKB	24V \pm 25% SELV
Current consumption	25mA TYP at 24V
Allowed TAG	Q5
Operating temperature	-10 ÷ +50 °C
Storage temperature	-30 ÷ +85 °C
Protection degree	IP20

Outline dimensions



Correct disposal of this product



(Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems). This marking on the product, accessories or literature indicates that the product should not be disposed of with other household waste at the end

of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Installation and use restrictions

Standards and regulations

The design and the setting up of electrical systems must be performed according to the relevant standards, guidelines, specifications and regulations of the relevant country. The installation, configuration and programming of the devices must be carried out by trained personnel.

The installation and the wiring of the bus line and the related devices must be performed according to the recommendations of the manufacturers (reported on the specific data sheet of the product) and according to the applicable standards.

All the relevant safety regulations, e.g. accident prevention regulations, law on technical work equipment, must also be observed.

Safety instructions

Protect the unit against moisture, dirt and any kind of damage during transport, storage and operation. Do not operate the unit outside the specified technical data.

Never open the housing. If not otherwise specified, install in closed housing (e.g. distribution cabinet). Earth the unit at the terminals provided, if existing, for this purpose. Do not obstruct cooling of the units. Keep out of the reach of children.

Setting up

The physical address assignment and the setting of parameters (if any) must be performed by the specific softwares provided together the device or by the specific programmer. For the first installation of the device proceed according to the following guidelines:

- Check that any voltage supplying the plant has been removed
- Assign the address to module (if any)
- Install and wire the device according to the schematic diagrams on the specific data sheet of the product
- Only then switch on the 230Vac supplying the bus power supply and the other related circuits

Applied standards

This device complies with the essential requirements of the following directives:

- 2014/30/UE (EMC)
- 2014/35/UE (Low Voltage)
- 2011/65/UE (RoHS)

Note

Technical characteristics and this data sheet are subject to change without notice.