# HVAC controller

**relay outputs for 3 speed fan and valves**




| | |
|---|---|
| Model number: | **FC-1-IQ** |
| Mounting: | in-field, inside fan-coil, junction box or dry-wall |
| Dimensions: | 108×86×45.5mm |

## Applications

- fan-coil control
- 3 speed ceiling fans
- radiator
- floor heating

## Features

- simple configuration
- flexible: for various types of convectors and valves
- fallback mode: ensure operation even when bus is broken

## Safety standards

EN 50081-1, EN 61000-6-2, EN 60730-1, EN 60730-2-1

# General description

FC-1-IQ is main actuator for TH units. It can drive fully featured fan-coils for wide range of convectors with electromechanical valves and 3 speed fan motor It can be used for controlling practically any heating/cooling system including: hot-water radiator valve, ceiling fan, ceiling/floor heating valve, electrical radiator power relay and AC's.

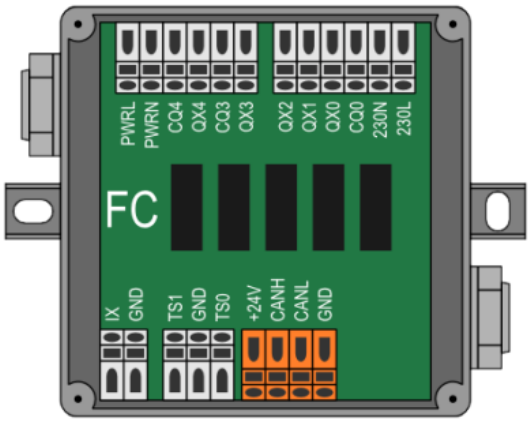
# Technical specification

| | |
|---|---|
| Relay outputs: | 3A/250V |
| Temperature measurement | external sensor ES or ES-A |
| Power supply: | 24V/45mA |
| Operating temperature: | 0..45°C |
| Storage temperature: | -20..75°C |
| Relative humidity: | 0..95% n/c |

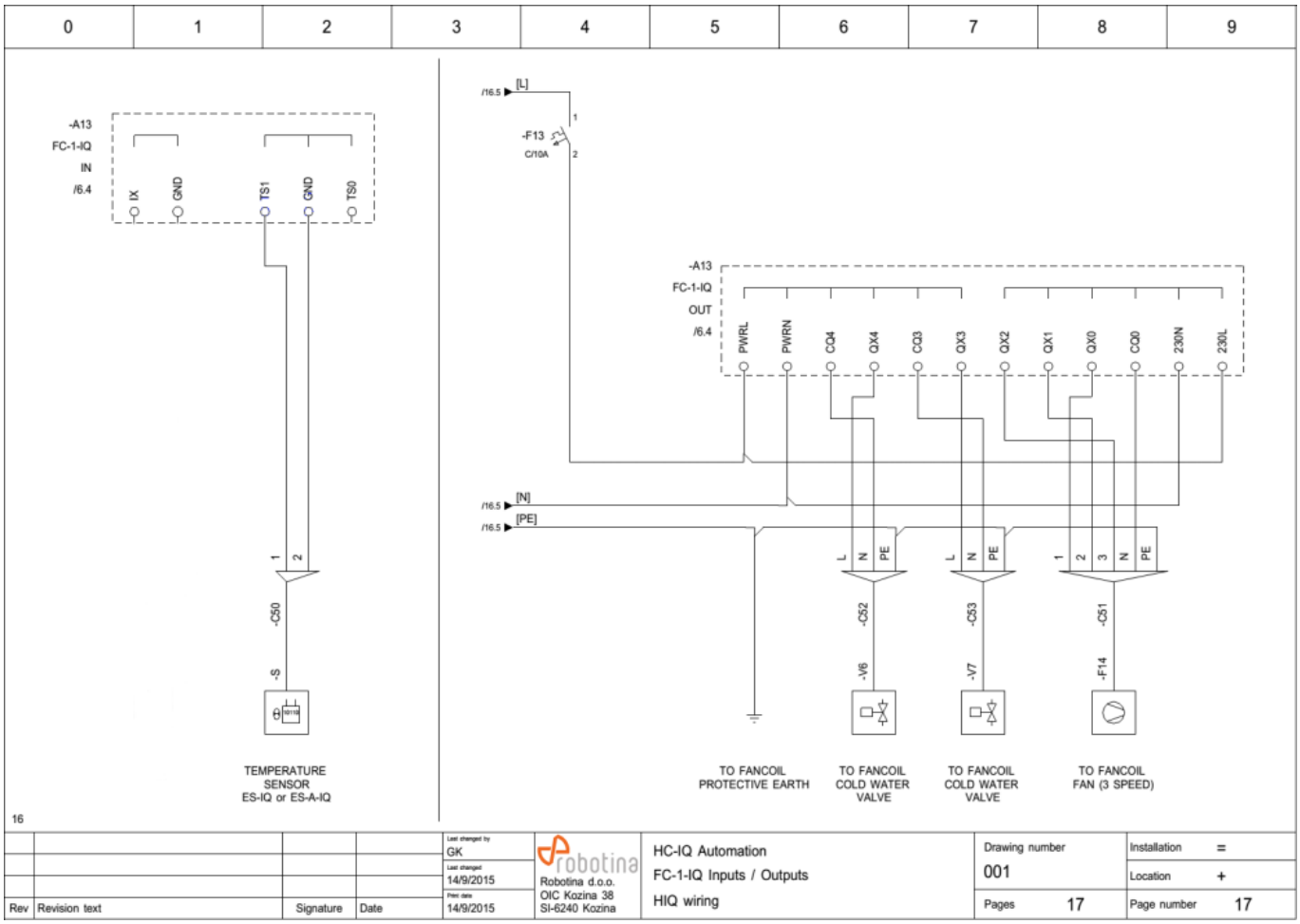
# Terminals

| | | |
|---|---|---|
| Valves power supply - Live | **PWRL** | QX3 & QX4 common |
| Valves power supply - Neutral | **PWRN** | CQ3 & CQ4 common |
| Cold water valve - Neutral | **CQ4** | Neutral output (directly connected to PWRN) |
| Cold water valve - Live | **QX4** | Relay output |
| Hot water valve - Neutral | **CQ3** | Neutral output (directly connected to PWRN) |
| Hot water valve - Live | **QX3** | Relay output |
| Fan - 3rd speed | **QX2** | Relay output |
| Fan - 2nd speed | **QX1** | Relay output |
| Fan - 1st speed | **QX0** | Relay output |
| Fan - Neutral | **CQ0** | Neutral output (directly connected to PWRN) |
| Fan power supply - Live | **230N** | CQ0 common |
| Fan power supply - Neutral | **230L** | QX0 - QX2 common |
| Not used | **IX** | Digital input |
| Not used | **GND** | Digital input common |
| External temperature sensor 2 input | **TS1** | Temperature sensor ES / ES-A input |
| External temperature sensor GND (common) | **GND** | Temperature sensors common |
| External temperature sensor 1 input | **TS0** | Temperature sensor ES / ES-A input |

| | | |
|---|---|---|
| IEX2 bus | **GND** | IEX2 bus |
| | **CANL** | |
| | **CANH** | |
| | **+24V** | |




When installing: “Autoaddress” button will link FC-1-IQ unit with lowest serial number with thermostat with lowest serial number and so on.



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