

# HVAC controller

## relay outputs for 3 speed fan and valves



Model number:	<b>FC-1-IQ</b>
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

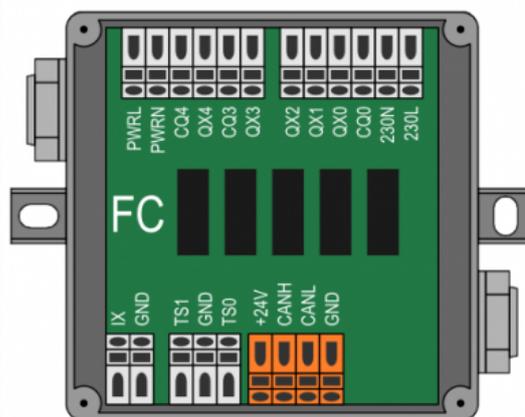
FC-1-IQ is main actuator for TH units. It can drive fully featured fan-coils for wide range of convectors with electromechanical valves and 3 speed fan motor. It can be used for controlling practically any heating/cooling system including: hot-water radiator valve, ceiling fan, ceiling/floor heating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

## Technical specification

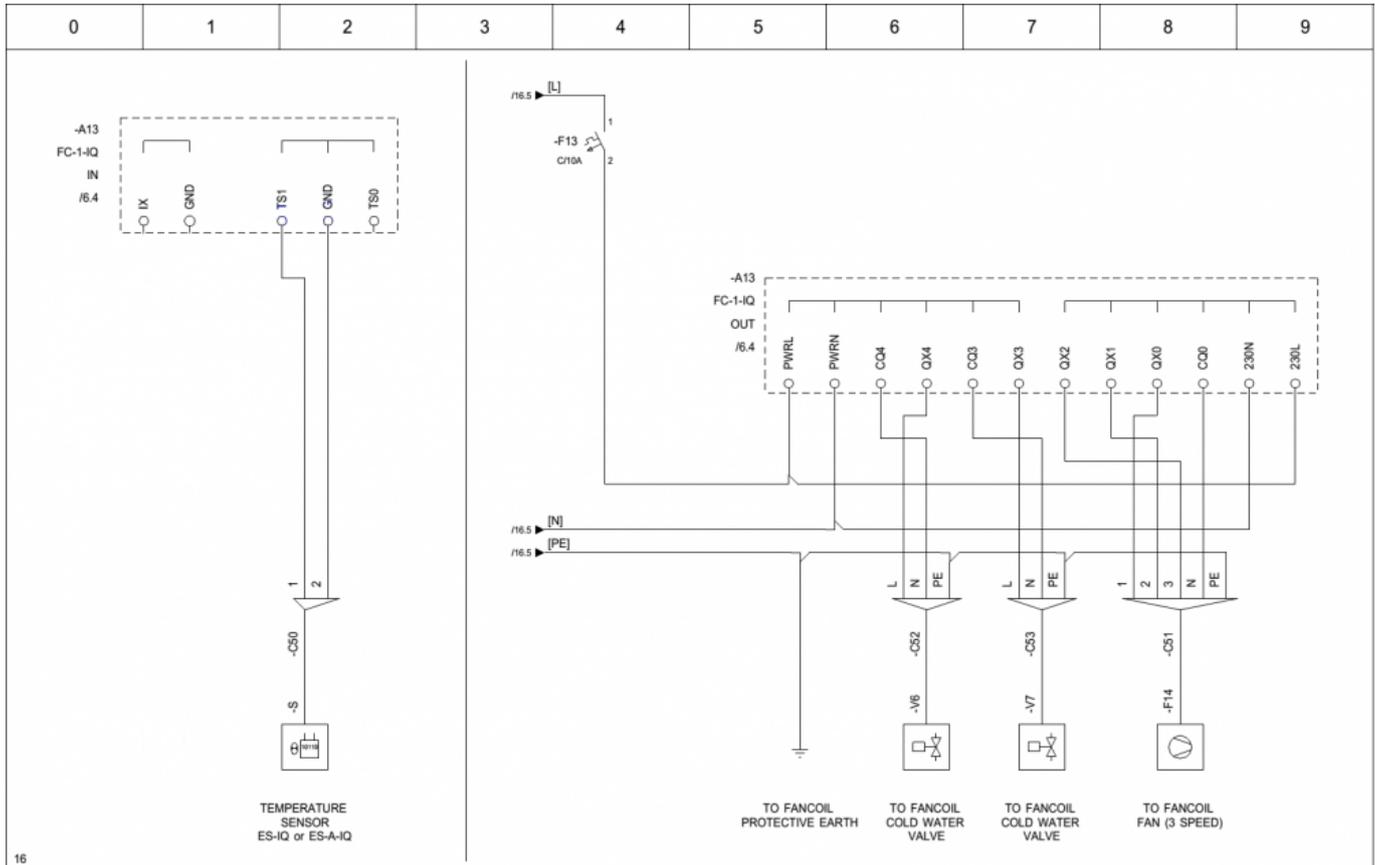
Relay outputs:	3A/250V
Temperature measurement	external sensor ES or ES-A
Power supply:	24V/45mA
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c

## Terminals

Valves power supply - Live	<b>PWRL</b>	QX3 & QX4 common
Valves power supply - Neutral	<b>PWRN</b>	CQ3 & CQ4 common
Cold water valve - Neutral	<b>CQ4</b>	Neutral output (directly connected to PWRN)
Cold water valve - Live	<b>QX4</b>	Relay output
Hot water valve - Neutral	<b>CQ3</b>	Neutral output (directly connected to PWRN)
Hot water valve - Live	<b>QX3</b>	Relay output
Fan - 3rd speed	<b>QX2</b>	Relay output
Fan - 2nd speed	<b>QX1</b>	Relay output
Fan - 1st speed	<b>QX0</b>	Relay output
Fan - Neutral	<b>CQ0</b>	Neutral output (directly connected to PWRN)
Fan power supply - Live	<b>230N</b>	CQ0 common
Fan power supply - Neutral	<b>230L</b>	QX0 - QX2 common
Not used	<b>IX</b>	Digital input
Not used	<b>GND</b>	Digital input common
External temperature sensor 2 input	<b>TS1</b>	Temperature sensor ES / ES-A input
External temperature sensor GND (common)	<b>GND</b>	Temperature sensors common
External temperature sensor 1 input	<b>TS0</b>	Temperature sensor ES / ES-A input
IEX2 bus	<b>GND</b>	IEX2 bus
	<b>CANL</b>	
	<b>CANH</b>	
	<b>+24V</b>	



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



16		Last changed by GK		 Robotina d.o.o. OIC Kozina 38 SI-6240 Kozina	HC-IQ Automation FC-1-IQ Inputs / Outputs HIQ wiring	Drawing number		Installation =	
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Rev		Revision text				14/9/2015		Pages 17	

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