SOLLATEK | INTELLIGENT CONTROLS

FREOTEC FTO42C

Advanced Open-Frame Electronic Thermostat and Energy Saving Device with in-built LED Display

Background

The FTO42C is an advanced temperature controller with 4 outputs and 3 inputs providing optimal energy saving and cooler performance capabilities.
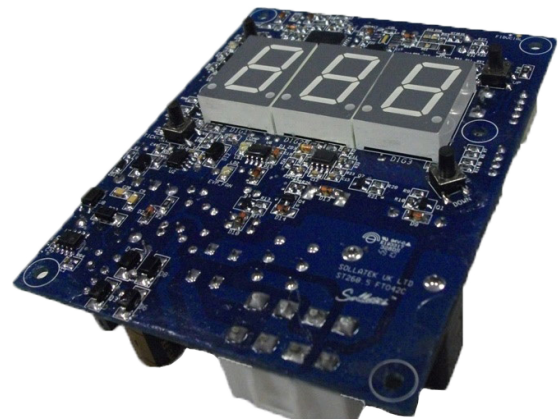
The in-built 3 digit 7-segment LED display is designed to catch the eye of customers seeking a cool refreshment, helping retailers to boost sales.

Performance parameters are fully customisable during production of each cooler model, as well as configurable via the display user interface in the field.

Easy to use Energy Saving Mode to increase cooler temperature and decrease fan and light use during non-peak retail hours.

Technical performance and Door Openings data collected by the FTO42C can be relayed to the Sollatek range of Connectivity (IoT) devices and transmitted via Bluetooth or 2G/3G to an online portal to create a valuable tool for evaluating cooler sales and health.

Double Conformal Coating protects the advanced electronics from damage due to moisture and dust in the harsh environments coolers are placed in the field.
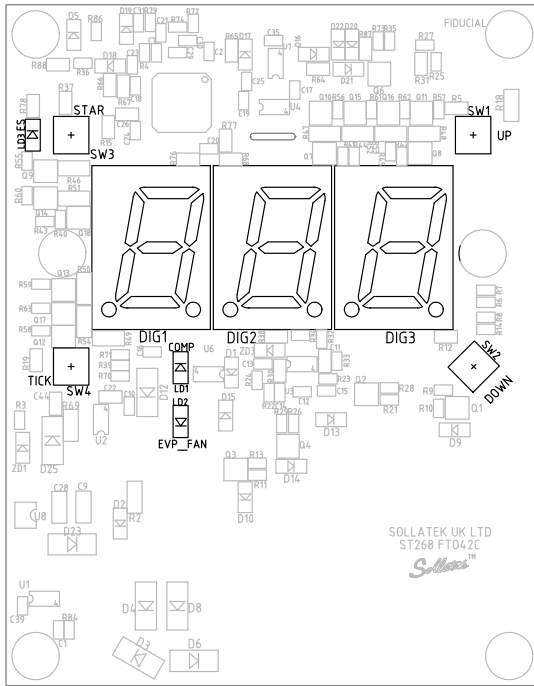
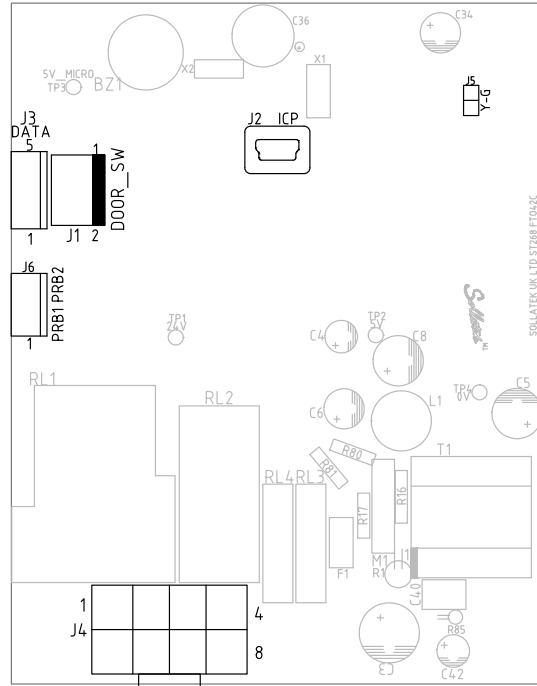IP 20   CE   UL   HAZLOC   RoHS

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Technical Specifications - FTO42C

Specification	FTO42C
Nominal voltage	115/230Vac (Universal Voltage)
Input voltage range:	75-300V @50/60Hz
Output voltage range	90 – 133Vac (on 115V nominal) & 180 – 266Vac (on 230V nominal)
Output relay current rating	1x 30A, 1 x 16A, 2 x 3A
Frequency	35-75Hz
Default HVD (Programmable)	133Vac (on 115V nominal) & 266Vac (on 230V nominal)
Default LVD (Programmable)	90Vac (on 115V nominal) & 180Vac (on 230V nominal)
Intelligent time delay (Programmable)	Yes
Controls	4 x push button switches
Micro	ST72F325J4T6 (16k) + 2Kbit EEPROM
ICP connector	Mini USB
Type of circuit power supply	Isolated switched mode
Surge/Spike Protection	input and MOV
Hardware Options (Output)	1 to 4 Relays
Hardware Options (Input)	up to 2 Temp Probes & 1 Door Switch
Power Connector	8 Way Connector: Live in, Live out, Neutral & 4 x Relay Output
Construction	Double sided PCB 2 x tropicalisation coating both sides. open frame, mounting to display. Cover on rear supplied by customer
Enclosure	Small cover mounted on rear of pcb. Supplied by customer
Mounting	Through panel
Temperature range	-10 to 60C°
Environmental rating	IP00 (because it has no cover)
Approvals	CE, UL, BS/EN60730
Dimensions	115mm x 90mm x 38mm
Weight	160g approx

Front view
(showing displays and switches)

Rear view
(showing connections)

DIG1 DIG2 DIG3

STAR SW3 UP SW1
TICK SW4 DOWN SW2

COMP LD1
EVP_FAN LD2

FIDUCIAL

SOLLATEK UK LTD
ST268 FT042C

J3 DATA
J6 PRB1 PRB2
J1 DOOR_SW
J2 ICP
J4
J5 Y-G
5V_MICRO TP3
BZ1
RL1 RL2 RL3 RL4
T1
SOLLATEK UK LTD ST268 FT042C

![Sollatek logo]

Intelligent Controls

Sollatek (UK) Ltd.
Sollatek House, Waterside Drive, Langley, Slough SL3 6EZ UK

SOLLATEK UK LTD.

Tel: +44 (1753) 214 500

sales@sollatek.com
www.sollatek.com

ISO9001: 2008 accredited company

For more information on Sollatek's
Refrigeration Control Range refer to
the FreoRange Catalogue.
or visit www.sollatek.com