



FTB & FDM

Advanced Management Temperature
Controller with optional Digital Display

FTB

The FTB is an advanced energy management temperature controller providing efficiency, optimal system performance, display and connectivity options that is suitable for all commercial fridges, coolers and freezers.

Description

The FTB can be connected to a Sollatek digital display for live temperature, controller status and parameter configuration or can be connected to an external Bluetooth device for remote access to controller status and parameters reading.

The FTB controls up to 4 outputs including compressor, fan, lights and heater and has three sensor inputs for two temperature probes and one door switch. The FTB is HC compatible with Hydro-Carbon rated relays.

The FTB provides protection to connected equipment to maximise cooler efficiency and reduce equipment damage and downtime. The FTB has zero voltage crossing for long relay life and offers complete voltage protection ensuring the controller and equipment only operate when the voltage is within set good working limits.



Features

- Controls up to 4 outputs including compressor, lights, fans and defrost heater
- Three external inputs; 2 x temperature probes, 1 x door switch
- Advanced energy saving features
- Time and/or temperature controlled defrost
- Connects to a digital display for live temperature reading, alarms and status/mode indication
- Connects to an external Bluetooth (BLE) device (GBR4) for remote monitoring via the Sollatek smart device app
- Separate SELV isolated circuits
- Switching at zero voltage crossing for long relay life
- Wide operating voltage (90 to 300 VAC)
- Complete voltage protection (high, low, Spike or surge protection)
- Intelligent time delays for compressor off periods including brownouts
- TIMESAVE™ Function - voltage sensing period before reconnecting supply after a bad voltage disconnection
- 1 LED for status indication
- Programmable via SPP02 programmer device for factory and in the field upgrades
- Hydrocarbon refrigerants compatible
- Encapsulated for maximum environmental protection
- Chasis mounted so can be discreetly mounted anywhere in the cooler

Features



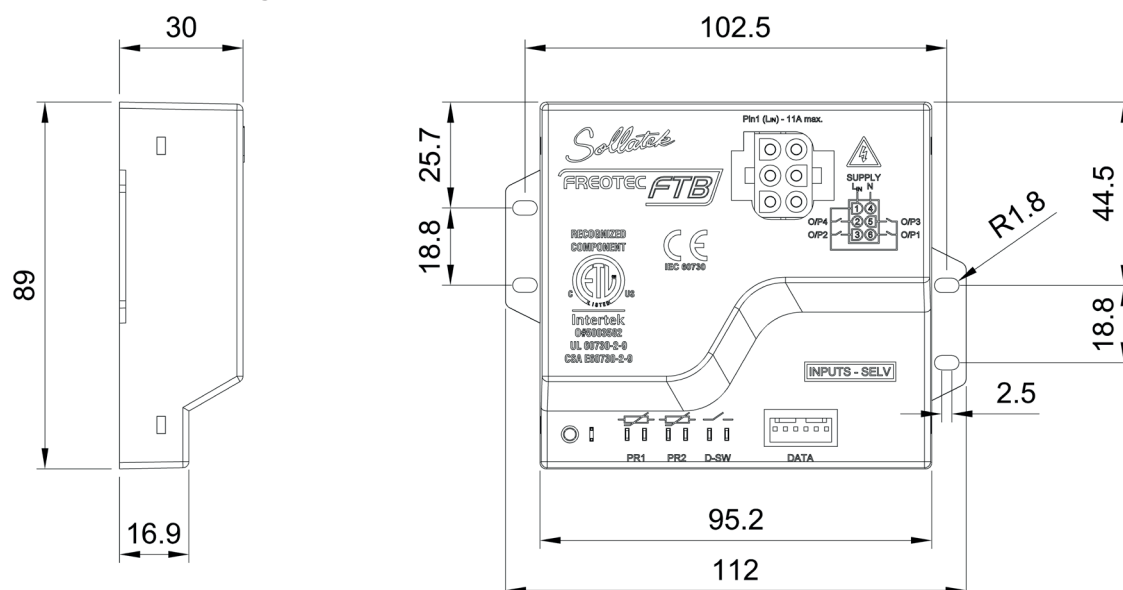
Optional External Features



Technical Specification

Refrigeration Control Specification	
Temperature Control Method	Air or Evaporator
Temperature Control Range	-30°C to +35°C (-22°F to +95°F)*
Temperature Time Delay	1 to 125 s
Defrost Control	Timed, Active
Energy Saving	Temperature Set-back & Lights off via door tracking Fan cycling during compressor operation
Intelligent Time Delay	0 to 10 m - maximise compressor availability
Refrigerant Compatibility	Hydrocarbon (per IEC 60079-15) & CO ₂
Input and Output	
Input Type	2 x Temperature Sensor & 1x Door Switch
Temperature Probe Type	10 kΩ NTC (β25/85: 3950 K)
Input Connector	3 x 2-way 0.11" (2.80 mm)
Output Control	Compressor, Evaporator fan, Condenser fan, Lights, Defrost heater
Output Rating	Compressor Relay: 16 A, 250 V Heater Relay (#2): 10 A, 250 V Fan Relay (#3): 5 A, 250 V Light Relay (#4): 5 A, 250 V
Maximum Input Current	Total input load must not exceed 11 A
Output Connector	6-way (2x3) multipole connector
Data Connector	6-way connector
Power & Voltage Protection	
Operating Voltage	90 - 300 VAC
Withstand Voltage	320 VAC
Working Frequency	Auto-sense 45 - 75 Hz
Type of Protection	High / Low, Spike / Surge & Frequency
High / Low Voltage Blind time	0 to 255 s
Surge Protection	6.5 kA, <10 ns, 160 J
Over voltage category	Category II
General	
User Interface	1 x Red status LED
IP Rating	Electronics: IP65
Operating Temperature	0°C to +60°C (32°F to +140°F)
Operating Humidity	95% RH non-condensing
Product Certification	CE, CB, IEC60730-1 UL60730-2-9, Hazloc
Flammability	UL94 V0 at 1.5 mm ; GWFI: 960 °C ; GWIT: 850 °C
Pollution Degree	2
Mounting	Chassis mounting: M4 self-tapping pozidriv Screws
Unit Dimensions	112.0 x 89.0 x 30.0 mm
Unit Weight	Approx. 190g
Stock Numbers	92364040 FTB42 Adv Cool Ctlr 115-230 HV 4O/P 3I/P

Dimensional Drawing



FDM4 RANGE

The FDM4 range are a 2 digit digital LED display module for Sollatek's refrigeration temperature controllers to provide live temperature, controller status and parameter configuration.

Features

- View live cooler temperature status and alarms
- Configure eight saved controller parameters plus adjust controller mode
- 2 X 30 mm tall 7 segment digits,
- Modern bright LEDs available in Red, Yellow, Green, Blue and White
- Low profile and fits standard display panel apertures
- IP65 front for washdown resistance
- Powered from the controller
- Simple connection via a connecting cable



FDM4

FDM4 Features

- Push button for parameter changing
- Rear button to preventing unauthorised personnel making adjustments
- LED controller status indicator



FDM4-S

FDM4-S Features

- 4 x touch button for parameter changing
- Optional password protection against unauthorised personnel making adjustments
- LED controller status indicator

Technical Specification

FDM4			FDM4-S		
User Interface					
Digit Type		2 x 7 segment digit, each lit with 14 SM LEDs			
Digit Height		30 mm			
Digit Colour		Red, Yellow, Green, Blue, White			
Annunciators		1x Minus sign ; 1x Decimal point ; 1x Controller status LED		1x Minus sign ; 1x Decimal point ; 4x Controller status icons	
Button / Keypad		1x push button (rear)		4x touch buttons (front)	
General					
Connector		6-way connector			
IP Rating		IP65 front for washdown			
Operating Temperature		-20°C to +55°C (4°F to +131°F)			
Operating Humidity		95% RH non-condensing			
Mounting		Panel mounting: rear clips			
Unit Dimensions		96.0 x 50.0 x 24.7 mm			
Unit Weight		Approx. 55 g			
Stock Codes		92394R00	FDM4R Red LED	92394R0S	FDM4R-S Red LED
		92394Y00	FDM4Y Yellow LED	92394Y0S	FDM4Y-S Yellow LED
		92394G00	FDM4G Green LED	92394G0S	FDM4G-S Green LED
		92394B00	FDM4B Blue LED	92394B0S	FDM4B-S Blue LED
		92394W00	FDM4W White LED	92394W0S	FDM4W-S White LED

FDM5 RANGE

The FDM5 range are a large 2 digit digital LED display module for Sollatek's refrigeration temperature controllers to provide live temperature, controller status and parameter configuration.

Features

- View live cooler temperature status and alarms
- Configure eight saved controller parameters plus adjust controller mode*
- 2 X 50 mm tall 7 segment digits
- 8x LED controller status icon indicators
- Modern bright LEDs available in Red, Yellow, Green, Blue and White
- Low profile for flexible mounting in the cooler
- IP65 front for washdown resistance
- Powered from the controller
- Simple connection via a connecting cable

FDM5 Features

- Display only - No configuration of controller parameter

FDM5-D Features

- Push button for parameter changing
- Rear button to preventing unauthorised personnel making adjustments

FDM5-S Features

- 4 x touch button for parameter changing
- Optional password protection against unauthorised personnel making adjustments



FDM5(-D)



FDM5-S

Technical Specification

		FDM5	FDM5-D		FDM5-S	
User Interface						
Digit Type	2 x 7 segment digit, each lit with 14 SM LEDs					
Digit Height	30 mm					
Digit Colour	Red, Yellow, Green, Blue, White					
Annunciators	1x Minus sign ; 1x Decimal point ; 8x Controller status icons					
Button / Keypad	N/A	1x push button (rear)		4 x touch buttons (front)		
General						
Connector	6-way connector					
IP Rating	IP65 front for washdown					
Operating Temperature	-20°C to +55°C (4°F to +131°F)					
Operating Humidity	95% RH non-condensing					
Mounting	Panel mounting: rear clips					
Unit Dimensions	128.0 x 90.0 x 24.7 mm					
Unit Weight	Approx. 130 g					
Stock Codes	92395R00	FDM5R Red LED	92395RD0	FDM4S-D Red LED	92395R0S	FDM4R-S Red LED
	92395Y00	FDM5Y Yellow LED	92395YD0	FDM5Y-D Yellow LED	92395Y0S	FDM4Y-S Yellow LED
	92395G00	FDM5G Green LED	92395GD0	FDM5G-D Green LED	92395G0S	FDM4G-S Green LED
	92395B00	FDM5B Blue LED	92395BD0	FDM5B-D Blue LED	92395B0S	FDM4B-S Blue LED
	92395W00	FDM5W White LED	92395WD0	FDM5W-D White LED	92395W0S	FDM4W-S White LED



Shipping Specification

	FTB	FDM4	FDM5
Carton Details			
Units per Carton	100	100	100
Carton Dimensions	510 x 560 x 250 mm	340 x 560 x 180 mm	520 x 540 x 240 mm
Carton Weight	21 kg	7.5 kg	17 kg
General			
Units per Pallet (cartons)	3200 (32)	2000 (20)	1200 (12)
Pallet Dimensions	1000 x 1200 x 2150 mm	1000 x 1200 x 1050 mm	1000 x 1200 x 870
Pallet Weight	576 kg	171.2 kg	222 kg

SOLLATEK'S EXPERTISE EXTENDS WORLDWIDE THROUGH LOCAL NETWORKS



HEAD OFFICE: SOLLATEK UK

MANUFACTURING FACILITIES: UK, EGYPT, THAILAND, CHINA.

LOCAL SOLLATEK COMPANIES: USA, MEXICO, TURKEY, EGYPT, NIGERIA, GHANA, KENYA, SOUTH AFRICA, INDIA.

STOCKISTS & DISTRIBUTORS IN OVER 60 COUNTRIES INCLUDING: GREECE, CYPRUS, POLAND, JORDAN, SAUDI ARABIA, ZAMBIA, MALAWI, UGANDA, TANZANIA, IVORY COAST, AUSTRALIA.

GLOBAL AND LOCAL

Established for over 35 years in the United Kingdom, Sollatek is a manufacturer of innovative products in temperature control, connectivity solution, power control, energy saving, and solar energy.

Operating from 12 countries, a global distribution network in 60 more and dedicated OEM offices in 5 continents, Sollatek is able to provide support services wherever you are.

The Sollatek electronic temperature controllers and connectivity solutions are designed for all commercial and professional applications providing precise control and smart monitoring and tracking.

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ISO9001: 2015 accredited company

All weights and dimensions are approximate.
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MBA

16/06/2021

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