



Energy
Management
Devices



Advanced
Temperature
Controllers



Connectivity
Solutions



Low Cost
Temperature
Controllers





DIAGEO



Haier®



Company Profile

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

Sollatek has a global reach with a local presence in 50 countries including manufacturing facilities in Thailand, Egypt, China and the UK. We have dedicated OEM offices across 5 continents and ship products to over 120 countries around the world.

Sollatek's refrigeration range offers innovative electronic temperature controllers, energy saving devices, LED displays and stabilising and voltage protection measures for commercial fridges, freezers, coolers, drink dispensers, chiller cabinets and refrigerated displays. All Sollatek products are hydrocarbon compliant.



TEMPERATURE CONTROLLERS

JE A

NEW

ADVANCED INTEGRATED CONTROLLER & DISPLAY WITH CONNECTIVITY OPTIONS

An advanced refrigeration control system with an integrated LED display for all merchandising coolers.

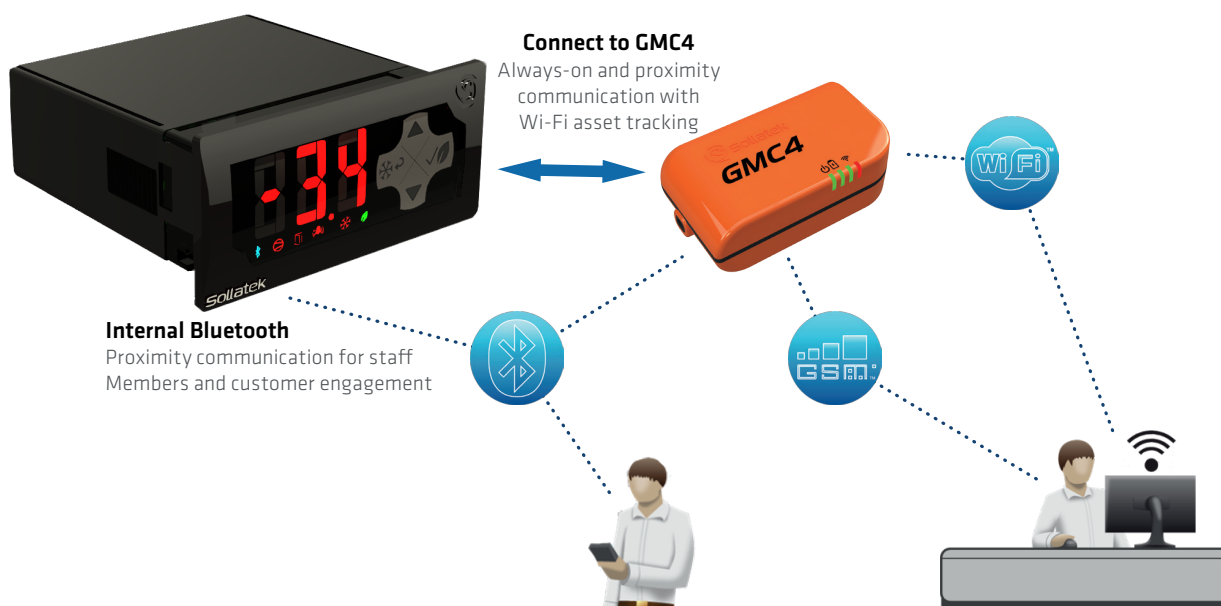
Internal and external connectivity options for today's and tomorrow's emerging technology.

- Up to 4 outputs
- Up to 5 inputs including door switch and presence sensor
- 90 V - 300 V universal voltage
- AC and DC switching certified relays for lights and fans
- Separate isolated outputs for optional DC lights and fan
- Advanced learning capability
- Sophisticated menu configuration
- Capacitive touch switches
- Hydrocarbon refrigerants compatible
- IP65 front
- Customisable bezel (different colours and options of custom logo)
- High visibility LED display (different LED colours available)
- Fits standard panel apertures so can be easily installed in existing or new coolers
- Front mountable without the need to access the rear panel



Options

- Available with red/yellow/green/white/blue LED display & customisable coloured bezel
- Internal Bluetooth and battery for data collection and customer engagement
- Supports Sollatek FFX-B expander port with GSM always-on communication, Wi-Fi and GPS location technologies and battery modules as well as tomorrow's connectivity solutions including LoRa, LTE-M, NB-IoT and Sigfox
- External connectivity module (GSM(2G/3G/4G/LTE-M), BLE and Wi-Fi)
- External digital display (FFD, FDM3)



TEMPERATURE CONTROLLERS

FFA



ULTRA ADVANCED TEMPERATURE CONTROLLER WITH UNIQUE EXPANDABILITY

The most advanced refrigeration control system currently available for merchandising coolers.

Unique expandability adding display, comprehensive connectivity, voltage stabilisation, energy saving and long life compressor switching.

- Up to 5 outputs
- Up to 5 inputs including door switch and presence sensor
- Wide input voltage range
- AC and DC switching certified relays for lights and fans
- Separate isolated outputs for optional DC lights and fan
- Total EMD functionality
- Hydrocarbon refrigerants compatible
- SELV isolated circuits



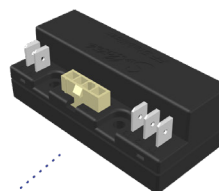
Options

- Digital display with comprehensive menu accessible via integral buttons (FFD, FDM3)
- Plug-in BLE module with or without battery (FFM-B/BB)
- Plug-in GSM modules (2G/3G/4G/LTE-M) with battery for always-on connectivity. Also with or without BLE for proximity communications and contactless asset identification and customer engagement (FFM-2, FFM-xBB)
- External GPS and/or Wi-Fi module for enhanced asset tracking (GGR, GWR, GCR)
- Plug-in voltage stabiliser (FFS) for areas with poor electricity supply
- Plug-in Solid State switch module (FFT) for long life compressor switching.

FFM-BB
Combined 2G & BLE
Plug-in Module



FFM-BB
Plug-in Bluetooth Module



FFS
Voltage Stabiliser Module
And Transformer



ANCILLARIES

- NTC Temperature Probe
- Magnetic Door Switch
- PIR Motion Sensor

FFD

LED Digital Display



FFA

Advanced Temperature Controller
With Unique Expandability



FFT

Long Life Switching
Triac Module

TEMPERATURE CONTROLLERS

FDE

NEW

ALWAYS ON TEMPERATURE CONTROLLER WITH BLUETOOTH AND ASSET TRACKING

An advanced all-in-one connected refrigeration controller for all merchandising coolers.

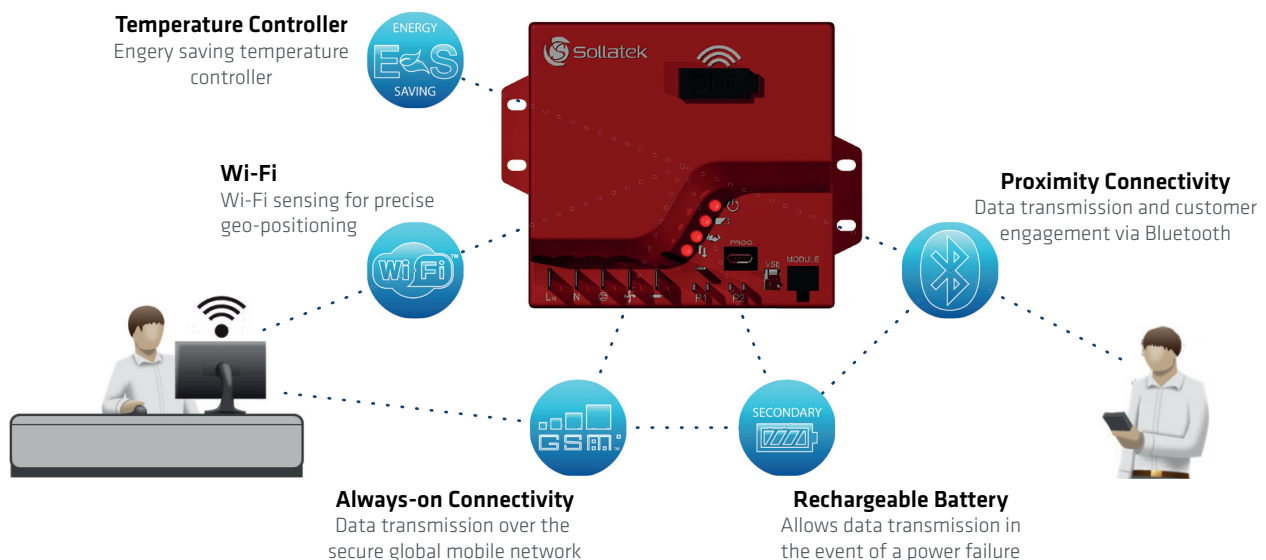
Internal GSM and Bluetooth for always-on and proximity connectivity as well as Wi-Fi sensing for geo-positioning.

- Up to 3 outputs
- Up to 2 inputs including door switch and presence sensor
- Energy Saving Feature (Fan cycling)
- Hydrocarbon refrigerants compatible
- 85 V - 300 V universal voltage
- GSM and Bluetooth connectivity to upload telemetry and performance data to the phone app and online portal
- Transmits iBeacon and Eddystone beacons for nearby customer engagement
- Wi-Fi sensing for precise geo-positioning via the online portal
- Parameters fully programmable via SPP device and software
- Complete voltage protection (high, low, spike & surge)
- Encapsulated for maximum environmental protection
- Four LED status indicators
- Variable speed compressor interface



Options

- 2G/LTE options
- Different battery capacity available (470 mAh or 610 mAh)
- Available with different memory size options (512 kB program memory, 32 MB or 64 MB data memory)
- External digital display or GPS module



TEMPERATURE CONTROLLERS

FCAx3

ADVANCED TEMPERATURE CONTROLLER

- Up to 3 outputs
- Up to 3 inputs including door switch
- Total EMD functionality
- Direct retrofit for electro-mechanical thermostats
- Hydrocarbon refrigerants compatible
- Bluetooth connectivity ready
- Internal or external Bluetooth for access to controller data via the smart device app as well as customer engagement
- User-adjustable temperature dial
- Parameters fully programmable via SPP device and software
- 75 V -300 V universal voltage range
- Zero voltage switch (ZVX) for long relay switching life
- TIMESAVETM intelligent time delay
- Complete voltage protection (high, low, spike & surge)
- Encapsulated for maximum environmental protection
- Three LED status indicators

Options

- Internal Bluetooth BLE
- External Bluetooth BLE module (GBR)
- Digital LED display (FFD, FDM3)



FCR

ELECTRONIC TEMPERATURE CONTROLLER

- Up to 3 outputs
- Up to 2 inputs including door switch
- Small physical size
- Energy saving (fan control)
- Direct retrofit for electro-mechanical thermostats
- Hydrocarbon refrigerants compatible
- User-adjustable temperature dial
- Parameters fully programmable via SPP device and software
- Connects to a Bluetooth module for access to controller data via the smart device app as well as customer engagement
- TIMESAVETM intelligent time delay
- Complete voltage protection (high, low, spike & surge)
- Encapsulated for maximum environmental protection
- LED status indicator

Options

- 230 V or 115 V models
- External Bluetooth BLE module (GBR)



FTB

ENERGY MANAGEMENT TEMPERATURE CONTROLLER

- Up to 4 outputs
- Up to 4 inputs including door switch and presence sensor
- Total EMD functionality
- Hydrocarbon refrigerants compatible
- Bluetooth connectivity ready
- Internal or external Bluetooth for access to controller data via the smart device app as well as customer engagement
- Parameters fully programmable via SPP device and software
- 75 V to 300 V universal voltage range
- Zero voltage switch (ZVX) for long relay switching life
- TIMESAVETM intelligent time delay
- Complete voltage protection (high, low, spike & surge)
- Encapsulated for maximum environmental protection
- LED status indicator

Options

- Internal Bluetooth BLE
- External Bluetooth BLE module (GBR)
- Digital LED display (FDM4/4S or FDM5/5S)



FCZ

ULTRA LOW COST TEMPERATURE CONTROLLER

- Up to 2 inputs including door switch
- Small physical size
- Direct retrofit for electro-mechanical thermostats
- Hydrocarbon refrigerants compatible
- User-adjustable temperature dial
- Parameters fully programmable via SPP device and software
- Connects to a Bluetooth module for access to controller data via the smart device app as well as customer engagement
- Zero voltage switch (ZVX) for long relay switching life
- TIMESAVETM intelligent time delay
- Voltage protection (high & low)
- Encapsulated for maximum environmental protection
- LED status indicator

Options

- 230 V or 115 V models
- External Bluetooth BLE module (GBR)



GMCO

REMOTE MONITORING AND ASSET TRACKING DEVICE



- Sales, technical & asset tracking tool
- Standalone device or connected to a controller
- Up to 6 input sensors (e.g. temperature, light, door sensors and presence sensor)
- Up to 3 external modules (Wi-Fi, GPS)
- Data transmission over a secure global mobile network - no need for site visits to collect data
- Access cooler telemetry and performance data, as well as cooler location on the online portal
- Internal Bluetooth (optional) to connect to the Sollatek smart device app
- Transmits iBeacon and Eddystone beacons for nearby customer engagement (if BLE fitted)
- Rechargeable internal battery for data transmission in the event of a power failure
- Encapsulated for maximum environmental protection
- 3 LED indicators for GSM and power status

Options

- 2G/3G/4G/LTE-M options
- Internal Bluetooth BLE
- Asset tracking device (GGR, GWR, GCR)
- Connection to external equipment via UART or RS485 interfaces

FFX-B

ADVANCED COMMUNICATION EXTENDER PORT



NEW

- Modules can be added in the field without the need for a qualified technician
- Provides always-on and proximity solutions
- Accommodates up to 4 plug-in modules
- Internal Bluetooth BLE
- GSM, battery and location modules available
- Accommodates emerging technologies such as LTE-M, LoRa, NB-IoT and Sigfox
- Uploads telemetry and performance data from the controller to the phone app or online portal (if GSM module plugged in)
- Transmits iBeacon and Eddystone beacons for nearby customer engagement
- IP65 front for washdown resistance
- Connects to JEA & Evocool system

Options

- Compatibility options for third party controllers
- Internal battery

Plug-in modules

- GSM Double modules (2G,3G,LTE)
- Battery single and double modules
- Location single modules (GNSS/GPS, Wi-Fi)



GMC4

ADVANCED CONNECTIVITY DEVICE PROVIDING GSM, BLUETOOTH AND WI-FI TRACKING

- Data transmission over a secure global mobile network - no need to visit site to collect data
- GSM connectivity to upload controller telemetry, performance and location data to the online portal
- Bluetooth allows telemetry data to be viewed on the phone app as well as controller parameters to be configured
- Transmits iBeacon and Eddystone beacons for nearby customer engagement
- Wi-Fi sensing for precise geo-positioning via the online portal
- Very accurate in urban and indoor locations
- Powered from the host device
- Internal rechargeable battery for data transmission even in the event of power failure



NEW

- 4 LED status indicators
- Small physical size for discreet mounting in the cooler
- Connects to JEA, Evocool system & FTB (FCA, FCR & FCZ future development)

Options

- 2G/LTE options
- Different memory size options (512 kB, 32 MB or 64 MB)

CONNECTIVITY MODULES

FFM-B

BLUETOOTH PLUG-IN MODULE

- Uploads telemetry and performance data from the controller to the phone app
- Transmits iBeacon and Eddystone beacons for nearby customer engagement and asset identification
- BLE connectivity module
- Two LED status indicators
- Plugs into Evocool system



Options

- Internal battery (FFM-BB)

FFM-xBB

COMBINED GSM & BLUETOOTH PLUG-IN MODULE

- GSM and Bluetooth connectivity
- Uploads telemetry and performance data from the controller to the phone app and online portal
- Transmits iBeacon and Eddystone beacons for nearby customer engagement
- Contactless asset identification through proximity
- Internal battery
- Two LED status indicators
- Plugs into Evocool system



Options

- 2G/3G/LTE options

GCR

COMBINED GPS & WI-FI TRACKING MODULE

- Multi-GNSS (GPS, GLONASS & Galileo) & Wi-Fi sensing module
- Highly sensitive for accurate location in rural and urban areas
- Connects to Evocool system with GSM module and GMCO



FFM-2

GSM PLUG-IN MODULE

- 2G GSM connectivity
- Uploads telemetry and performance data from the controller to the portal
- Internal battery
- Two LED status indicators
- Plugs into Evocool system



GBR

REMOTE BLUETOOTH DEVICE

- Uploads telemetry and performance data from the controller to the phone app
- Transmits iBeacon and Eddystone beacons for nearby customer engagement and asset identification
- Contactless asset identification through proximity
- Connects to Evocool system, FTB, FCA, FCR & FCZ
- Two LED status indicators



Options

- Internal battery (GBR-B)

GWR

WI-FI TRACKING MODULE

- Wi-Fi sensing module - does not connect to Wi-Fi
- Very accurate in urban and indoor locations
- LED status indicator
- Connects to Evocool system with GSM module and GMCO



GGR

GPS TRACKING MODULE

- Multi-GNSS (GPS, GLONASS & Galileo)
- Highly sensitive for accuracy even in remote rural locations
- LED status indicator
- Connects to Evocool system with GSM module and GMCO



DIGITAL DISPLAY

FFD

DIGITAL LED DISPLAY

- 14 mm height display characters
- 3 X 7 segment digits
- 2 Decimal points, “-” sign and 8 status icons
- Four control buttons
- Adjust a wide range of controller parameters
- Low profile and fits standard display panel apertures
- IP65 front for washdown resistance
- Connects to Evocool system and FCAX3

Options

- Available in red/yellow/green/white/blue LEDs



FDM3

DIGITAL LED DISPLAY

- 14 mm height display characters
- 3 X 7 segment digits
- 2 Decimal points, “-” sign and 8 status icons
- Four control buttons
- Adjust a wide range of controller parameters
- Low profile and fits standard display panel apertures
- IP65 front for washdown resistance
- Connects to Evocool system and FCAX3

Options

- Available in red/yellow/green/white/blue LEDs



FDM4

DIGITAL LED DISPLAY

- 30 mm height display characters
- 2 X 7 segment digits
- Decimal point, “-” sign and compressor run mode LED
- One push button on the rear of the unit
- Adjust six saved controller parameters plus mode changes
- Low profile and fits standard display panel apertures
- IP65 front for washdown resistance
- Connects to FTB

Options

- Available in red/yellow/green/white/blue LEDs



FDM4-S

DIGITAL LED DISPLAY

- 30 mm height display characters
- 2 X 7 segment digits
- Decimal point, “-” sign and 4 status icons
- Four capacitive touch buttons on the right of the display
- Adjust six saved controller parameters plus mode changes
- Low profile and fits standard display panel apertures
- IP65 front for washdown resistance
- Connects to FTB

Options

- Available in red/yellow/green/white/blue LEDs



FDM5

DIGITAL LED DISPLAY

- 50 mm height display characters
- 2 X 7 segment digits
- Decimal point, “-” sign and 8 status icons
- One push button on the rear of the unit
- Adjust six saved controller parameters plus mode changes
- Low profile
- IP65 front for washdown resistance
- Connects to FTB

Options

- Available in red/yellow/green/white/blue LEDs



FDM5-S

DIGITAL LED DISPLAY

- 50 mm height display characters
- 2 X 7 segment digits
- Decimal point, “-” sign and 8 status icons
- Four capacitive touch buttons
- Adjust six saved controller parameters plus mode changes
- Low profile
- IP65 front for washdown resistance
- Connects to FTB

Options

- Available in red/yellow/green/white/blue LEDs



FSPx RANGE

VOLTAGE STABILISATION AND PROTECTION FOR ALL REFRIGERATION AND OEM APPLICATIONS



NEW

- Wide input range depending on model - 5 models available
- Complete voltage protection (high, low, spike & surge protection)
- Hydrocarbon refrigerants compatible
- Frequency compensated and noise-free measurements
- Zero voltage crossing technology (ZVX) for long relay life
- TIMESAVETM intelligent delay to reduce off-time when power has been off for more than 3 minutes
- Two discrete components: electronic control module and a power transformer
- Controller fully encapsulated and transformer shrouded for harsh environments
- Single plug for easy transformer connection
- Three LED status indicators

Options

- 5 Models: FSPE, FSPF, FSP, FSPM, FSPL
- 115 VAC or 230 VAC nominal voltage version
- Current can be matched to your requirement

Model Capability Comparison

	FSPE	FSPF	FSP	FSPM	FSPL
LVD	✓	✓	✓	✓	✓
Extra large Boost	✓	✗	✗	✗	✗
Large Boost	✓	✓	✓	✗	✗
Normal Boost	✓	✓	✓	✓	✓
1:1	✓	✓	✓	✓	✓
Buck	✓	✓	✓	✓	✗
HVD	✓	✓	✓	✓	✓

FMP1

SOLLATEK PASSIVE INFRA-RED (PIR) MOTION DETECTOR



NEW

- Detect activity around the cooler
- Wide field of view and detection range of approximately 2 m
- Small in size and discreetly mounts onto the front grill
- Connects to Evocool system with GSM or BLE, JEA with GSM or BLE, GMCO and FTB with internal BLE

EASYFIT

BLUETOOTH DEVICE FOR CONTACTLESS TRACKING



NEW

- Monitors, saves and uploads cooler temperature, light, door open/close, and movement data
- Uploads data to the phone app via Bluetooth
- Transmits iBeacon and Eddystone beacons for nearby customer engagement
- Internal sensors
- Internal battery - No wires. Good for retrofit applications
- Contactless asset identification through proximity
- Mountable inside the cooler with a super-sticky pad

Options

- Magnet module for door sensing
- Optional screw mount fixing base

SPP



SOLLATEK PROGRAMMING DEVICE

- Programming device for Sollatek refrigeration controls and displays
- Internal battery for programming in-situ ideal for production and in the field
- Capable of 1000+ programming events on a single charge

ANCILLARIES

NTC TEMPERATURE PROBE & MAGNETIC DOOR SWITCH



- Sensitive 10K or 100K NTC sensor for accurate measurement
- Two component magnetic door switch; Switch and Magnet
- Different lengths, diameters & colours available
- Different connector types for fitting to Sollatek controllers

FMN485

COMMUNICATION SIGNAL CONVERTER



- Converts RS-485 signal to 3.3 V TTL signal
- Allows communication with external devices
- Connects to GMCO

Sollatek's **expertise** extends **worldwide** through **local networks**



Global and Local

With a customer base across the world, a local presence in more than 50 countries and dedicated OEM offices in 5 continents, Sollatek is able to provide support services wherever you are.



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MBA

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