TACмv2

AUSTRALIA'S CHOICE IN COOL ROOM AND FREEZER CONTROL

▶ New Generation Control ◀

TACmv2 is Australia's freezer and cool room controller of choice. Created over 25 years ago by control technology leaders, Phasefale, TACmv2 has grown its Australia-wide installed base to over 50,000 – testament to its reliability and performance.

A cost-efficient stand-alone controller, TACmv2 is full featured and user friendly. Its reputation is largely due to Phasefale's focus on performance excellence in three core areas:

Temperature control

Alarm status monitoring

Control of the refrigeration cycle.

These represent its key features and benefits – superior refrigeration and defrost control, full-featured alarm, robust housing and user-friendly programming.

The controller's evolution over 25 years into the latest model (see below) has been designed to enhance functions while maintaining existing user familiarity. The result is a simple, powerful controller supporting freezer and cool room applications of every kind – all in a single model.

TACmv2 joins Phasefale's *JouleTemp* internet-enabled range of temperature and humidity controllers to form a solution set that covers every cool room and freezer control need.

▶ *What's new in TACmv2?*

USB enabled!
The USB port opens the door to data transfer functions.
▶ *data and event logging* – date/time-stamped logging of temperatures, door, alarms and control events
▶ *download/upload settings* – aids accurate record keeping
▶ *firmware upgrades* – update TACmv2 with new features as available from Phasefale's website.

On-board real-time clock
TACmv2's real-time clock ensures absolute time precision. The clock allows scheduling of up to 12 defrosts. The logging provides a per-minute record of temperatures and alarm events for diagnosis of operational problems, and to assist dispute resolution.

Enhanced alarm functions
A new door monitor and alarm function allow a time-limited 'fan off' function for operator comfort. An on-board 80dB buzzer is included.

Advanced controller display and programming
Display precision to a resolution of ⁺/₋ 0.1°C, plus two new programming menus – setting the real-time clock and USB upload/download functions.

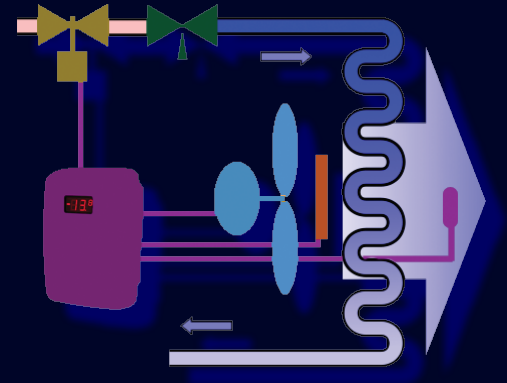# *TACmv2* AT A GLANCE
CONTROL, DEFROST, ALARM, LOGGING...

▶ Superior refrigeration and defrost control

TACmv2 provides flexibility and precision in controlling the refrigeration cycle. A single model supports a wide range of refrigeration and cool room control needs – from simple on/off control of refrigeration plant to full electric defrost systems.

The TACmv2's control functions include configurable anti-short cycle timer to protect refrigeration compressors, plus fan and drain delay periods. Local and remote control of set points and defrost cycle start/stop is also supported. Up to 12 scheduled defrost cycles may be initiated. Defrost cycles may be terminated according to time, optional temperature probe or evaporator klixon.

Defrosts can be initiated and stopped from the keyboard at any time, with 'time to next'/'time from last' defrosts displayed.

TACmv2 includes off-cycle and electric/hot gas defrost within a single model. The optional fan heater board enables the TACmv2 to control heaters up to 3.7kW and fans to 1HP.
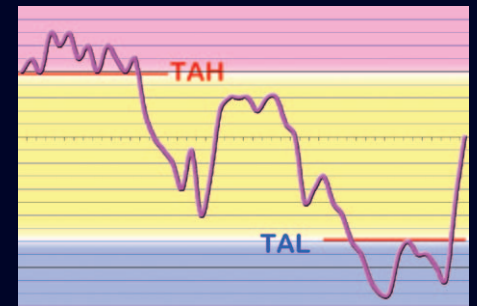
▶ Full-featured alarm functionality

TACmv2 controller is founded on 'smart alarm' architecture – one that is simply smarter than market competitors. Freezer and cool room alarm conditions – high and low temperatures and freezer/cool room door open – are comprehensively monitored. Each alarm condition has an adjustable delay to filter out false alarms.

TACmv2 'remembers' alarm conditions – recent alarm conditions remain in alarm memory and appear by TACmv2's flashing LED alarm display. This plus USB event logging provides vital operational records.
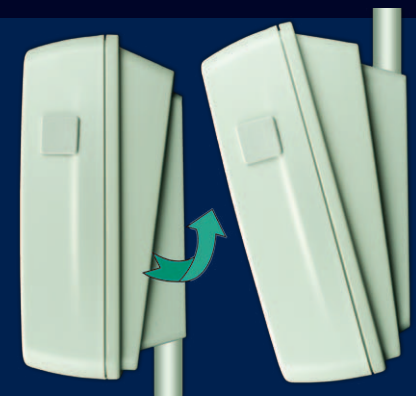
Alarms are displayed locally (flashing display, alarm LED and piezo buzzer) and remotely. Remote connections include external buzzer, alarm lamp, a security output, distress connections and more. The security output directly interfaces with Phasefale's AD3 Voice Dialler. The door alarm also offers a 'fan off' (with time-out) comfort function for staff.

▶ Housing built for cool rooms and freezers

TACmv2 is housed in a robust built-for-purpose enclosure. The splash-proof housing features a unique rotatable base that converts the housing's orientation from 'tilt-down' (for high-level installations) to 'flat' (for eye-level) – in a single package.
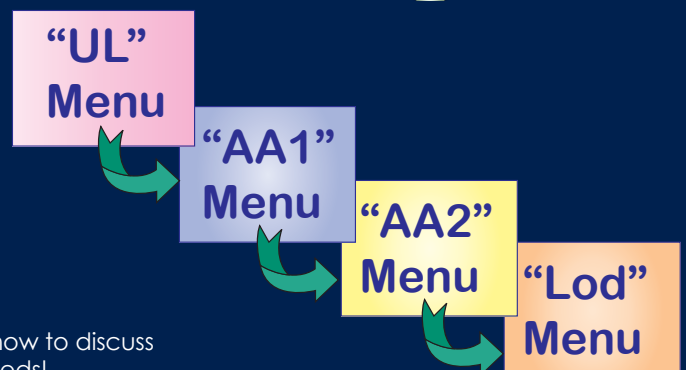
Dual-moulded 19mm conduit entry points provide for neat field connection, while the silicon rubber keypad and large (14mm) LED display support straightforward, fault-free operation.

▶ User-friendly programming

A four-level system permits fast setup from the keypad. The basic (UL) menu covers most settings and gets you going. Deeper level advanced settings (AA[1]), clock (AA[2]) and data transfer (Lod) menus cover the rest as required.

Needing no PC or software, TACmv2 can be programmed from the keyboard. The thoughtfully structured levels use meaningful letter symbols, ensuring programming is intuitive, quick to master and easy to remember. This saves on training and maintenance costs. In addition, TACmv2's USB upload settings provide a simple means of programming off-site and to a company standard. Similarly, USB download aids record keeping.

"UL" Menu
"AA1" Menu
"AA2" Menu
"Lod" Menu

▶ Why Phasefale?

TACmv2 is proudly designed and manufactured in Australia – call now to discuss your application with people who understand your refrigeration needs!

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