

MT-512E

Digital Controllers & Remote Monitoring



MT-512E-2HP



MT-512E-LOG

10 Year
Limited
Warranty

RHS
COMPLIANT



RA
US

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Description

The Ranco® MT-512E Digital Controllers feature a single relay output combined with a cyclical timer for system defrosting. A manual defrost can be set through the controller or via manual shutdown of the refrigeration system. The digital filter feature simulates an increase in mass of the room temperature sensor, increasing its response time, and avoiding unnecessary compressor activations. In addition, the MT-512E Controllers have a tamperproof feature preventing unauthorized users from changing settings. A control shutdown feature deactivates the output terminals turning the instrument into a digital temperature indicator. The MT-512E-LOG Digital Controllers have additional features including an open-door indicator and datalogger for internal memory retention. Datalogging records the measured temperature and control output status at userdetermined intervals along with other configurable parameters. The MT-512E-LOG has a serial communication port to connect to the Sitrad® software. Free Sitrad Remote Management Software allows for connectivity to monitor and control your system from any location.

Features and Benefits

MT-512E-LOG only

- Sitrad® App based software for remote operation and monitoring
- Log data for temperature compliance

Features and Benefits Continued

MT-512E-2HP and MT-512E-LOG

- TMT-512E-2HP and MT-512E-LOG
- One controller to stock for both 115/230V applications
- Heavy-duty 2HP rated relay
- Temperature sensor included - no need to purchase separately
- Versatile for both cooling and heating applications
- Prevents tampering in public locations ie grocery stores
- Easy programming
- IP65 front protection level
- R290, R600A compliant
- Function lock
- Manual defrost
- Control functions shutdown

Applications

- Medium Temperature Cases
- Chest/Upright/Reach-In Coolers
- Walk-in Coolers
- Hot Cabinets

Specifications

Part Number	MT-512E-2HP	MT-512E-LOG
Description	Digital controller for medium and high temperature applications – one sensor included	Digital controller for medium and high temperature applications + Sitrad + Datalogger – one sensor included
Relays	1 Relay	1 Relay
Electrical Rating	115 or 230 VAC, 50/60 Hz	115 or 230 VAC, 50/60 Hz
Temperature Range	-58°F to 221°F (-50°C to 105°C)	-58°F to 221°F (-50°C to 105°C)
Dimensions (WxHxD)	76 x 34 x 77 mm	76 x 34 x 77 mm
Maximum Load Current	16 A for resistive-type loads and 12 A for inductive-type loads	NO -16A / 2HP NC - 500W / 1/10HP
Maximum Load Power	2HP	2HP
Protection	IP65 (Frontal)	IP65 (Frontal)
Sitrad® Compatible	No	Yes

Wiring Diagrams

