

# AR2-28

107x95x47 MM

## Versatile Split Defrost Controller with RTC

### Main Features

- Up to 6 real time defrosts
- Synchronized defrost start and termination with master-slave connection
- Selectable NTC10K or PTC input
- FLEXICOLD function for energy saving or alternative setpoint
- Optional control of a second compressor or evaporator
- Excellent evaporator fan control
- Absolute or relative temperature alarms, door open alarm, condenser high temperature/pressure alarm
- Light and standby control (On/Off)
- Quick programming through ZOTAR2
- Connection to LAE supervisory systems
- Available display unit: LCD-5S or RU33

### Applications

Cold stores, control panels, upright refrigerators, plug-in and supermarket display cases, and all those plants where real time defrost starts are needed.

### Technical Data: RU33 display unit

|                   |                      |
|-------------------|----------------------|
| DIMENSIONS:       | 169x38x25 mm (WxHxD) |
| PANEL CUT-OUT:    | 163x31.5 mm          |
| FRONT PROTECTION: | IP55                 |

### Technical Data

|                       |  |
|-----------------------|--|
| RANGE:                | -50...120°C, -55...240°F   |
| RESOLUTION:           | 0.1 / 1 °C; °F   |
| PRECISION:            | NTC10K: <math>\lt; \pm 0.3^{\circ}\text{C}</math> (-40.0 ÷ 70.0°C)<br>PTC1000: <math>\lt; \pm 0.5^{\circ}\text{C}</math> (-50 ÷ 120°C) |
| SENSOR TYPE:          | SELECTABLE NTC10K STANDARD MOD. SN4K20P1/P2/P3<br>OR PTC1000 STANDARD MOD. ST1K20P1/P2/P3  |
| RECHARGEABLE BATTERY: | >150 HOURS   |
| POWER SUPPLY:         | 230V~ ±10% 50÷60Hz 3W  |



### AR2-28 series

| Functions          |                           | B1S3E-B | C2Q4E-B | C3R5U-A |
|--------------------|---------------------------|---------|---------|---------|
| Temperature inputs | Thermostat                | ✓       | ✓       | ✓       |
|                    | Evaporator                | ✓       | ✓       | ✓       |
|                    | Auxiliary                 | ✓       | ✓       | ✓       |
| Door switch input  | Voltage free contact      | ✓       | ✓       | ✓       |
|                    | D12 aux. digital input    | ✓       |         |         |
| Connections        | 12÷24Vac voltage          |         | ✓       |         |
|                    | Defrost synchronisation   |         |         | ✓       |
|                    | Quick with M/F connectors |         | ✓       | ✓       |
| Display unit       | Screw terminals           | ✓       |         |         |
|                    | LCD-5S                    | ✓       | ✓       |         |
| Outputs            | RU33                      |         |         | ✓       |
|                    | Thermostat                | ✓       | ✓       | ✓       |
|                    | Evaporator fans           | ✓       | ✓       | ✓       |
|                    | Defrost                   | ✓       | ✓       | ✓       |
|                    | Auxiliary 1               |         | ✓       | ✓       |
| Power supply       | Auxiliary 2               |         |         | ✓       |
|                    | 230Vac                    | ✓       | ✓       |         |
| Serial port        | 115Vac                    |         |         | ✓       |
|                    | TTL                       |         |         | ✓       |
|                    | RS485                     | ✓       | ✓       |         |

All models come with an alarm buzzer. Versions with power supply 12Vac/dc and 115Vac are also available. In order to know more options available for the models, please consult LAE or our local dealer.

