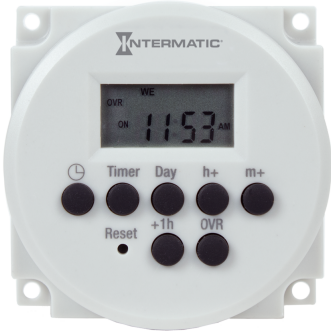


24-Hour or 7-Day 120-277 V Electronic Surface/DIN Rail Mount Module, 15 A, 20 Setpoint Programs, SPDT

Item FM1D20-AV-U



PRODUCT DESCRIPTION

The FM1D20 Series is a great value electronic time-based control solution for ventilating, heating, cooling, lighting or other electrical loads in commercial and industrial applications. These one-channel time switches are programmable for 24-hour or 7-day schedules with integrated cycle timer. The FM1D20 Series is intended for either panel, surface, flush or DIN rail mounting. Flush and surface/DIN rail (A & E models) are completely enclosed in a plastic housing and include a terminal cover, dust cover and subbase for installation and hard wiring.

FEATURES

- ▶ 24-Hour or 7-day applications.
- ▶ 20 Setpoint programs.
- ▶ Easy to program.
- ▶ Manual override with status indication.
- ▶ Self-recharging battery with backup protection up to 2500-hours.
- ▶ LCD display.
- ▶ A & E models come with clear dust cover.
- ▶ Cycle timer function.

APPLICATIONS

- ▶ Refrigeration Merchandiser
- ▶ Air Movement & Ventilation
- ▶ Aeration
- ▶ Septic Treatment
- ▶ Generator Exercising

TECHNICAL DATA

| General                                  |                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Model Number                             | FM1D20-AV-U                                                                                           |
| Description                              | 24-Hour or 7-Day 120-277 V Electronic Surface/DIN Rail Mount Module, 15 A, 20 Setpoint Programs, SPDT |
| UPC Code                                 | 078275156845                                                                                          |
| Country of Origin (Intermatic)           | CHINA                                                                                                 |
| Warranty Period                          | 1-Year limited                                                                                        |
| IGCC                                     | 5191                                                                                                  |
| UNSPSC                                   | 39122208                                                                                              |
| Control Specifications                   |                                                                                                       |
| Minimum ON/OFF Times                     | 1 min                                                                                                 |
| Time Presets                             | Flexible                                                                                              |
| Operation Mode                           | 24 hour; 7 day; Cycle                                                                                 |
| Daylight Savings Adjustment              | Manual                                                                                                |
| Backup Type                              | Battery                                                                                               |
| Backup Protection Time                   | 2500 Hours                                                                                            |
| Battery Service Type                     | Non-Replaceable                                                                                       |
| Mechanism Type                           | Digital/Electrical                                                                                    |
| Has Manual Override Status Indication    | Yes                                                                                                   |
| Chemical Composition of the Battery Cell | Ni-MH                                                                                                 |
| On Events                                | 10                                                                                                    |

|              |    |
|--------------|----|
| Off Events   | 10 |
| Total Events | 20 |

#### Mechanical Specifications

|                  |                   |
|------------------|-------------------|
| Mounting Options | Surface; DIN Rail |
|------------------|-------------------|

#### Dimensions

|                                   |                             |
|-----------------------------------|-----------------------------|
| Product Dimensions (H x W x D) mm | 59.944 x 59.944 x 21.082 mm |
| Product Dimensions (H x W x D) in | 2.36 x 2.36 x 0.83 in       |
| Cut-Out Width (In)                | 2 5/8                       |
| Cut-Out Width (mm)                | 66                          |
| Cut-Out Height (in)               | 2 5/8                       |
| Cut-Out Height (mm)               | 66                          |
| Wire Size Min                     | #24 AWG                     |
| Wire Size Max                     | #10 AWG                     |

#### Material Specifications

|                      |       |
|----------------------|-------|
| Color                | White |
| Has Clear Dust Cover | Yes   |

#### Load Ratings

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| Motor Load (NC) Range(s)            | 1/2 HP @ 120/240 VAC; 10 FLA, 60 LRA @ 250 VAC             |
| Motor Load (NO) Range(s)            | 1/2 HP @ 120 VAC; 10 FLA, 60 LRA @ 250 VAC; 1 HP @ 250 VAC |
| Magnetic Ballast (NO) Range(s)      | 8 A, 277 VAC                                               |
| Magnetic Ballast (NC) Range(s)      | 8 A, 120 VAC                                               |
| Resistive (NC) Range(s)             | 12 A, 24 VDC                                               |
| Pilot Duty (NO) Range(s)            | B300                                                       |
| General Purpose (NC) Range(s)       | 15 A, 277 VAC                                              |
| General Purpose (NO) Range(s)       | 15 A, 277 VAC                                              |
| Electronic Ballast (NO) Range(s)    | 4.9 A, 120 VAC                                             |
| Tungsten Incandescent (NO) Range(s) | 1000 W, 120 VAC                                            |

#### Electrical Specifications

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Maximum Power Consumption (VA) | 4                                                  |
| Voltage Selection Type         | Voltage Specific                                   |
| Wiring Option                  | Spade terminals for #24 to #10 AWG wire (A models) |
| Number of Circuits             | 1                                                  |
| Switch Type                    | SPDT                                               |
| Maximum Power Consumption (W)  | 1.4 W                                              |

#### Packaging

|                                       |                       |
|---------------------------------------|-----------------------|
| Shipping Weight (kg)                  | 0.24                  |
| Shipping Weight (lbs)                 | 0.53                  |
| Unit Carton Dimensions (H x W x D) in | 3.25 x 3.25 x 4.75 in |
| Units Per Pallet                      | 1080                  |

#### Operating Specifications

|                                |      |
|--------------------------------|------|
| Expected Lifetime (Operations) | 6000 |
|--------------------------------|------|

**Environmental Specifications**

|                                        |                          |
|----------------------------------------|--------------------------|
| Operating Humidity                     | 0-95% RH, Non-condensing |
| Display Operating Temperature Min (°F) | 5                        |
| Display Operating Temperature Min (°C) | -15                      |
| Temperature (operation)                | -15 - 55 °C / 5 - 131 °F |

**Standards and Certifications**

|                                          |                           |
|------------------------------------------|---------------------------|
| UL Certification                         | cRUus                     |
| Other Certifications and Compatibilities | CA Title 20; Green Energy |
| RU File Number                           | #E10694                   |
| California Proposition 65                | None                      |
| RoHS Certification                       | Y                         |