

## Graesslin Electronic Timer Control - 24-Hour or 7-Day 12/24V Electronic Surface/DIN Rail Mount Module, 16A, 20 Setpoint Programs, SPDT

Item FM1D20A-LV



### PRODUCT DESCRIPTION

The FM1D20 Series Electronic Time Controls are 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. They are 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
- ▶ One Cycle Timer program
- ▶ Three preset adjustable block programs
- ▶ Easy-to-follow menu driven programming
- ▶ Manual override with status indication
- ▶ Battery backup
- ▶ Large LCD
- ▶ Daylight Saving Time adjustment
- ▶ A & E models come with clear dust cover

### APPLICATIONS

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

### TECHNICAL DATA

| General                        |   |
|--------------------------------|---|
| Model Number                   | FM1D20A-LV  |
| Description                    | 24-Hour or 7-Day 12/24V Electronic Surface/DIN Rail Mount Module, 16A, 20 Setpoint Programs, SPDT |
| UPC Code                       | 078275156814  |
| Brand                          | Intermatic  |
| Country of Origin (Intermatic) | CHINA   |
| Warranty Period                | 1-Year limited  |

| Control Specifications      |                                   |
|-----------------------------|-----------------------------------|
| Minimum ON/OFF Times        | 1 min                             |
| Maximum ON/OFF Times        | 23 hours, 59 minutes              |
| Setpoint Program Count      | 20                                |
| ON/OFF Operations           | 140                               |
| Operation Mode              | 24 hour; 7 day                    |
| Daylight Savings Adjustment | Manual                            |
| Backup Type                 | Battery                           |
| Backup Protection Time      | 2500 Hours                        |
| Battery Service Type        | Non-replaceable; Non-rechargeable |
| Mechanism Type              | Digital/Electrical                |

Has Manual Override Status Indication Yes

### Mechanical Specifications

Mounting Options Surface; DIN Rail

### Dimensions

Product Dimensions (H x W x D) in 4 x 2.83 x 2.06 in  
 Cut-Out Width (In) 2.625  
 Cut-Out Width (mm) 66.675  
 Cut-Out Height (in) 2.625  
 Cut-Out Height (mm) 66.675  
 Wire Size Min #24 AWG  
 Wire Size Max #10 AWG

### Material Specifications

Color White  
 Has Clear Dust Cover Yes

### Load Ratings

Tungsten (NO) Load Ratings 1000 W, 120 VAC  
 Magnetic Ballast (NO) Range(s) 8 A, 277 VAC  
 Magnetic Ballast (NC) Range(s) 8 A, 277 VAC  
 Resistive (NO) Range(s) 15 A, 277 VAC  
 Resistive (NC) Range(s) 15 A, 277 VAC  
 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 Load Ratings NO Ranges 4.9 A, 120 VAC  
 Tungsten (NO) Range(s) 8 A, 277 VAC  
 Motor Load Ratings NC Ranges 1/2 HP @ 120/240 VAC; 10 FLA, 60 LRA @ 250 VAC  
 Motor Load Ratings NO Ranges 1/2 HP, 120 VAC; 1 HP, 240 VAC

### Electrical Specifications

Maximum Power Consumption (VA) 4  
 Voltage Selection Type Voltage Specific  
 Wiring Option Screw 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 (lbs) 0.529  
 Unit Carton Dimensions (H x W x L) in 3.25 x 3.25 x 4.75 in

### 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)                | 5 °F to 131 °F / (-15 °C to 55 °C) |

**Standards and Certifications**

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