



# LIGHTING CONTROLS

## ELECTRONIC TIME CLOCKS

### FM\_D SERIES

# GRÄSSLIN



FM1D50A-120

### DESCRIPTION

The Grasslin FM1D50 Series electronic time clocks are compact time controls providing 24-hour or 7-day time-based switching of HVAC control circuits, lighting, or machinery. The FM1D50 is a single-circuit control and the FM2D50 is a two-circuit control. They utilize heavy-duty, 16A, SPDT relay contacts suitable for low- or line- voltage loads.

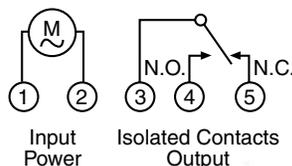
### FEATURES

- 24-hour or 7-day programming
- 50 programs and 20 program models
- 24 VAC or 120 VAC models
- Automatic daylight savings time (DST) changeover
- Large LCD display of day, time, and load status
- Manual override of each circuit
- Eighth-day holiday programming

### SPECIFICATIONS

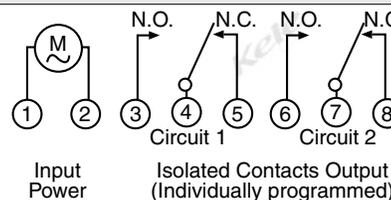
<b>Supply Voltage</b>	24 VAC @ 4 VA 50/60 Hz; 24 VDC @ 166.6 mA, 120VAC, or 240 VAC	<b>Battery Backup Schedules</b>	3 year battery life (Non-Replaceable) 20 event or 50 event per order
<b>Operation</b>	4 buttons w/ menu display	<b>Holidays</b>	8th day, No Holiday per say
<b>Relay Output Configuration</b>	Dry Contact, Maintain operation	<b>Schedule Transfer</b>	None
<b>FM1</b>	1 Circuit, SPDT	<b>Display</b>	4 line LCD display, w/clear dust cover
<b>FM2</b>	2 Circuit Individually controlled, Dual SPDT	<b>Local Set-up &amp; Control</b>	6-Push Buttons for menu manipulation
<b>Contact Current</b>	Circuit 1 and 2	<b>Operating Temperature</b>	-14°F to 131°F (-10°C to 55°C)
<b>Resistive</b>	(NC) 16A @ 277 VAC	<b>Operating Humidity</b>	0% to 95% Non-condensing
<b>Ballast</b>	(NO) 8A @ 240 VAC, 12A @ 120 VAC	<b>Wiring Terminations</b>	5 or 8 Screw terminals, 10 AWG
<b>Tungsten</b>	(NO) 1000W @ 240 VAC, 600W @ 120 VAC	<b>Mounting</b>	Surface/DIN rail/Flush, (Product specific)
<b>FAN</b>	(NO) 1/2 hp, 120 VAC; 1 hp, 240 VAC; (NC) 360 VA @ 120 VAC	<b>Enclosure Rating</b>	NEMA 3R, Plastic with terminal cover
<b>Manual Override</b>	2- push buttons (one for each circuit)	<b>Dimensions</b>	
<b>Clock</b>	12/24 hour clock with 24 hour/7 day programming	<b>FM1</b>	2.4"H x 2.4"W x 2.3"D (6.0 x 6.0 x 5.8 cm)
<b>Clock Accuracy</b>	±4 minutes per year	<b>FM2</b>	4"H x 2.8"W x 2.3"D (10.2 x 7.2 x 5.8 cm)
<b>Special Functions</b>	Day light Saving Time (DST)	<b>Weight</b>	0.5 lb ( 0.23 Kg)
		<b>Approvals</b>	UL File #E10694, CE
		<b>Warranty</b>	1 year

### WIRING



Note: Screw terminals accept up to #12 AWG wire

FM1D50A



Note: Screw terminals accept up to #12 AWG wire

FM2D50

### ORDERING INFORMATION

Model	Supply Voltage	Channels	Mounting	Additional Specifications
FM1D20A-24	24 VAC/VDC	1	Surface/ DIN rail	20 programs
FM1D20A-120	120V	1	Surface/ DIN rail	20 programs
FM1D20A-240	240 V	1	Surface/ DIN rail	20 programs
FM1D50A-24	24 VAC/VDC	1	Surface/ DIN rail	50 programs
FM1D50A-120	120V	1	Surface/ DIN rail	50 programs
FM1D50E-24	24 VAC/VDC	1	Flush	50 programs
FM2D50-24	24 VAC/VDC	2	Surface/ DIN rail	50 programs
FM2D50-120	120V	2	Surface/ DIN rail	50 programs