

FM1 Series

21 A, 1-Circuit, Panel Mount Timer Modules

The FM1 Series Timer Modules are designed to be integrated inside of a machine control panel, circuit board, or other equipment. They are a simple and low cost alternative for applications that do not require more than 21 A or 2 HP, 240 VAC. The FM1 is designed for 24-hour or 7-day control or overriding a functional typical state of a heating, ventilation, refrigeration, lighting, security, or pump system. The FM1 series is ideal for 12, 24 VAC/VDC, 120 or 208/240VAC single-phase general applications.

Applications

- Commercial refrigeration • Pool & Spa • Ventilation
- Hot water pump circulation • Hydroponic systems
- Lighting panel control • Landscape lighting
- Bug and pest control systems • Aerobic waste water systems

Features

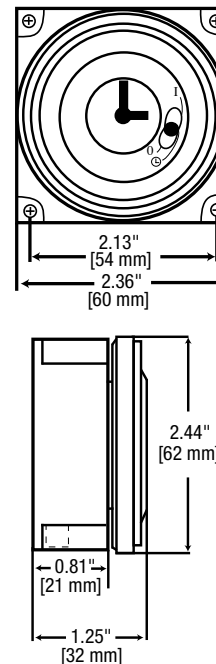
- 21 A SPDT Switch
- Captive trippers with 15-minute intervals on 24-hour models and 2-hour intervals on 7-day models
- 7-Day carry-over battery backup on Q models
- Noise immune – ideal for robust applications
- Synchronous drive or quartz drive Q models with self-recharging battery backup
- True clock face, easy-to-set
- Available with or without override
- Compact size
- Clear plastic cover (DC-FME-A), sold separately below
- Standalone or with indoor/outdoor enclosure, sold separately below



FM1STUZH

Dimensions

FM1 Panel Mount Series

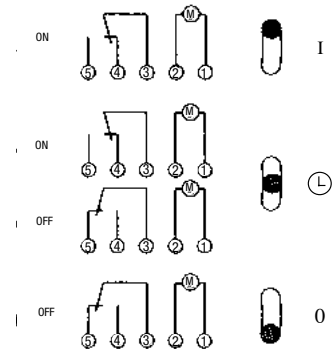


Wiring Diagrams

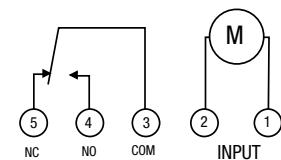
Override Mode

3-Way Manual
Override Switch

I = permanent ON
L = automatic
O = permanent OFF



Switch Configuration



Model # Synchronous	Model # Quartz w/ Battery Backup	Voltage	Override	MIN ON/ OFF Time
24-Hour				
FM1STUZ-24U	FM1QTUZ-24U*	24 VAC, 60 Hz	No	15-Min
FM1STUZ-120U	FM1QTUZ-120U*	120 VAC, 60 Hz	No	
FM1STUZ-240U	FM1QTUZ-240U*	208/240 VAC, 60 Hz	No	
FM1STUZ220/50	—	220, 50 Hz	No	
FM1STUZH-24U	FM1QTUZH-24U*	24 VAC, 60 Hz	Yes	
FM1STUZH-120U	FM1QTUZH-120U*	120 VAC, 60 Hz	Yes	
FM1STUZH-240U	—	208/240 VAC, 60 Hz	Yes	
FM1STUZH220/50	—	220, 50 Hz	Yes	
7-Day				
FM1SWUZ-24U	—	24 VAC, 60 Hz	No	2-Hr
FM1SWUZ -120U	FM1QWUZ-120U*	120 VAC, 60 Hz	No	
FM1SWUZ -240U	FM1QWUZ-240U*	208/240 VAC, 60 Hz	No	
FM1SWUZH-24U	—	24 VAC, 60 Hz	Yes	
FM1SWUZH -120U	FM1QWUZH-120U*	120 VAC, 60 Hz	Yes	
FM1SWUZH -240U	FM1QWUZH-240U*	208/240 VAC, 60 Hz	Yes	

*Quartz models operate at 12-24 VDC/VAC, 120, or 208/240 VAC and are Title 20 listed.

Accessories

Clear Dust Cover	DC-FME-A
Surface/DIN Rail Mount	FM-SU
Flush Mount Kit	FM-FU
Outdoor Enclosure	E200
Indoor Enclosure	E150

SPECIFIERS GUIDE

Furnish and install a Grässlin FM1 _____ (24-Hour) (7-Day) Timer Module with _____ (15-Minute) (2-Hour) interval captive trippers and _____ (Quartz) (Synchronous) drive. Input voltage shall be _____ (12) (24) VDC, (12) (24) (120) (220) (208/240) VAC, and SPDT switch contacts shall be rated at: • 21 A Resistive • 2 HP @ 250 VAC

To set the starting time and to provide time indication, the unit shall incorporate an authentic clock face. For override, the timer module shall contain a 3-way ON/OFF/AUTO switch. For carry-over, the timer module shall have a quartz drive with 7-day reserve carry-over from a self-recharging battery. Installation for panel mounting.



Ratings	
Supply Voltage	24, 120, 208/240 VAC, 60 Hz; 220, 50 Hz
Quartz Models	12, 24 VAC/VDC, 120, 208/240 VAC, 50/60 Hz
Power Consumption	1 VA
Switch Type	SPDT
Resistive	21 A, 120-250 VAC
Tungsten	1350 W, 120 VAC
Motor	1 HP, 120 VAC; 2 HP, 250 VAC
Operating Temperature	-40° F to 185° F (-40° C to 85° C) -4° F to 131° F (-20° C to 55° C) with battery backup
Battery Backup Option	7-Day carry-over Q Models
Dimensions	2.36" x 2.36" x 1.25"
H x W x D	(60 mm x 60 mm x 32 mm)
Wiring Terminals	¼" quick connect terminals
Shipping Weight	.15 lbs. (.07 kg)
Warranty	1-year limited