### GE Consumer & Industrial Grasslin Controls Corporation

# Time and Energy Controls for a Dynamic World!

For the past 25 years Grasslin has been on the forefront of innovation by providing top guality time and energy control devices to the North American market. Our time switches are designed to meet today's energy conservation initiatives and tomorrow's environmental demands. Grasslin products can be found around the world embedded into: Commercial **Refrigeration Equipment**, Lighting Control Panel, Pool and Spa Controls, Gate Operators, Residential In-Wall Timers, and many more applications.





# **Single Channel Electronic Time Controls**

# Digi 20 and Digi 42 Series 24 Hour and/or 7 Day

APPLICATION: Time based control of lighting, ventilating, heating, cooling or other electrical loads in commercial and industrial applications. These one channel time switches are programmable for 24-hour or 7-day schedules. The Digi 42 offers an "8th day" or holiday schedule. The Digi 20A or Digi 42A are intended for either surface or DIN rail mounting. Both models are completely enclosed in a plastic housing and includes a terminal cover and sub-base for installation and hard wiring. The Digi 20E or Digi 42E are intended for flush mounting. Both models are supplied with a clear plastic snap-on dust cover.



Digi 42A

SPECIFICATIONS Channels Programs Holiday Program Reserve Carryover; min. Automatic Spring/Fall Daylight Saving Time Changeover	Digi 20 1 20 No 1 week No	Digi 42 1 42 Yes 2 weeks Yes	RUR C.E.C. CERTIFIED TITLE 24, File #E83486 PART 6 ON ALL DIGI 42 MODELS CE
TECHNICAL DATA OUTPUT: 1 SPDT relay with dry contacts SWITCHING CAPACITY: 16A Resistive @ 1000W Tungsten @ NPUT DRAW: 4VA SHORTEST SWITCHING TIME: 1 minute ACCURACY: Less than ±4 minutes per ye AMBIENT TEMPERATURE: 0°F to 140°F (- AMBIENT TEMPERATURE: 0°F to 140°F (- AMBIENT HUMIDITY: 0 to 95% RH, non- Selectable AM/PM or 24 hr. (military) t One Key Daylight Time Changeover (at MANUAL 3-WAY OVERRIDE: Temporary OFF status	277VAC 2 240VAC ar deviation 18°C to 60°C) condensing me LCD display itomatic on Digi 4	or	<ul> <li>FEATURES</li> <li>24 hour or 7 day programming with accuracy to the second</li> <li>Easy programming; minimal keys and programming steps</li> <li>Unique "Circular Programming" with large keys is easier to use</li> <li>Selectable blocks of weekdays or weekends for quick programming on Digi 20, any combination of days on Digi 42</li> <li>Holiday program on Digi 42 may be scheduled a week in advance for one or more days</li> <li>Rechargeable battery backup with 1-4 weeks reserve carry-over</li> </ul>

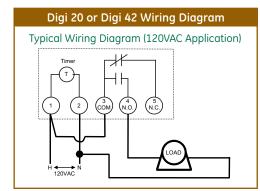
WIRING CONNECTIONS: "A" Models: screw terminals for #10 to #24 AWG wire

"E" Models: 1/4" quick connects

- erride provides for either temporary or continuous ON or OFF state, with status displayed in large LCD
- Digi 42 models have automatic Daylight Saving Time changeover
- 24V models will operate either on AC or DC

### SPECIFIERS GUIDE

Furnish and install a Grasslin Digi 20 (Digi 42) \_\_\_\_ electronic time switch. This 1 channel control shall have 24 hour and 7 day programming and also offer 10 (21) ON and 10 (21) OFF setpoint programs and include 4 block programs (allow selection of any combination of days) for different weekday schedules. The LCD shall display time of day in AM/PM or military time format and provide load status indication. A Daylight Saving Time adjustment key shall also be provided. The time switch will be programmable to the minute and also offer a manual override for ON or OFF to the next scheduled event or for permanent ON/OFF/Automatic. (The Digi 42 shall provide a 8th day or "Holiday" program which may be activated to begin on a specific day up to a week in advance, and continue from 1 to 99 days, selectable by the user.) The SPDT relay output will be rated for 16A Resistive @ 277VAC. Reserve shall be provided for a minimum of 7 days with built-in rechargeable batteries which need not be replaced. The time switch shall be surface, DIN rail or flush mountable or shall be available with a NEMA 1 indoor or NEMA 3R outdoor enclosure.



Digi 20 and Digi 42 Series Ordering Data — Digi 42A and E also available for 12VDC input.								
Model Code	Timer Voltage	Mounting	Setpoint Programs	Maximum Weekly On/Off Events	Relay Output Resistive Rating			
Digi20A - 120	120V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V			
Digi20A – 240	208/240V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V			
Digi20A – 24	24V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V			
Digi20A – 277	277V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V			
Digi42A – 120	120V, 50/60Hz	Surface or DIN Rail	42	294	SPDT, 16A, 250V			
Digi42A – 240	208/240V, 50/60Hz	Surface or DIN Rail	42	294	SPDT, 16A, 250V			
Digi42A – 24	24V, 50/60Hz	Surface or DIN Rail	42	294	SPDT, 16A, 250V			
Digi20E – 120	120V, 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V			
Digi20E – 240	208/240V, 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V			
Digi20E – 24	24V, 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V			
Digi20E – 277	277V, 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V			
Digi42E – 120	120V, 50/60Hz	Flush Panel	42	294	SPDT, 16A, 250V			
Digi42E – 240	208/240V, 50/60Hz	Flush Panel	42	294	SPDT, 16A, 250V			
Digi42E – 24	24V, 50/60Hz	Flush Panel	42	294	SPDT, 16A, 250V			

# **Dual Channel Electronic Time Controls**

# Digi 42/2 24 Hour and/or 7 Day

**APPLICATION:** This unit can be used to control 240VAC two-phase loads such as pumps, compressors, etc. It can also be used to provide time based control of two circuit lighting, ventilating, heating, cooling or other electrical loads in commercial and industrial applications. The Digi 42/2 time switches are programmable for 24-hour or 7-day schedules as well as an "8th day" or holiday schedule. Each channel can operate independently or combined.

### SPECIFICATIONS

OUTPUT SWITCHES: 1	Two SPDT relays with dry contacts
SWITCH CAPACITY: 1	6A General Purpose, 125-250VAC
	1000W Tungsten, 250V
	500W Tungsten, 125V
N.O. Contact:	1HP, 240VAC; 1/2HP, 120VAC
	Pilot Duty: 720VA, 120-240VAC
N.C. Contact:	3/4HP, 240VAC; 1/3HP, 120VAC
	Pilot Duty: 360VA, 120-240VAC

INPUT POWER: 4.4VA

SHORTEST SWITCHING TIME: 1 minute

ACCURACY: Less than  $\pm 4$  minutes per year deviation

AMBIENT TEMPERATURE: 0°F to 140°F (-18°C to 60°C)

AMBIENT HUMIDITY: 0 to 95% RH, non-condensing Selectable AM/PM or 24 hr. (military) time display

Selectable AM/PM or 24 nr. (military) time alsplay

Selectable completely automatic or one key manual daylight time changeover

MANUAL 3-WAY OVERRIDE: Temporary or permanent ON or OFF; status indication in LCD display

WIRING CONNECTIONS: Screw terminals #12 to #24AWG

**SIZE:** 2.83" × 2.83" square face, × 2.28" deep

UL AND CANADIAN UL RECOGNIZED: File E83486



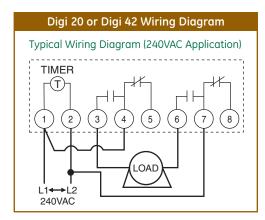
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### **FEATURES**

- 24 hour or 7 day programming with resolution to the minute and accuracy to the second
- Large keys ease programming
- Unique circular programming pattern and minimal steps simplify programming
- Automatic Daylight Saving Time changeover in spring and fall eliminates need to manually change the time
- Holiday, or "8th day" program may be scheduled a week in advance for one or more days
- Each channel may be programmed separately, or both together
- Automatically recharged NiCad battery maintains program and display for two weeks or more
- Manual override for each channel provides for either temporary or continuous ON or OFF state, with status displayed in large LCD

### SPECIFIERS GUIDE

Furnish and install a Grasslin Digi 42/2 electronic time switch. This two channel control shall have 24 hour and 7 day programming and also offer 21 ON and 21 OFF setpoint programs and allow selection of any combination of days for different weekday schedules. The LCD shall display time of day in AM/PM or military time format and provide load status indication. Selectable automatic or manual daylight time changeover shall be provided. In automatic mode, the time switch shall automatically advance the time by 1 hour at 2AM on the first Sunday of April, and set back the time 1 hour at 2AM on the last Sunday of October. The time switch shall be programmable to the minute and also offer a manual override for ON or OFF to the next scheduled event or for permanent ON/OFF/Auto. A 8th day or "Holiday" program shall be provided which may be activated to begin on a specific day up to a week in advance, and continue from 1 to 99 days, selectable by the user. The SPDT relay outputs will be rated for 16A General Purpose, 1HP at 240V, and 16A General Purpose, 1/2HP at 120V as well as pilot duty of 720VA. Reserve shall be provided for a minimum of 14 days with a built-in rechargeable battery which need not be replaced. The time switch shall be surface or flush panel mountable with a DIN rail mounting base optional, or shall be available with a NEMA 1 indoor or NEMA 3R outdoor enclosure.



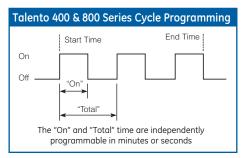
Digi 42/2 Ordering Data								
Model Code	Timer Voltage	Mounting*	Setpoint Programs	Maximum Weekly On/Off Events	Relay Output General Purpose Rating			
Digi42/2 – 120	120V, 50/60Hz	Flush or Surface	42	294	(2) SPDT, 16A, 250VAC			
Digi42/2 – 240	240V, 50/60Hz	Flush or Surface	42	294	(2) SPDT, 16A, 250VAC			
Digi42/2 – 24	24V, 50/60Hz	Flush or Surface	42	294	(2) SPDT, 16A, 250VAC			

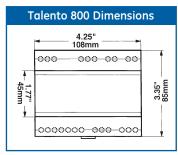
\*For DIN rail mounting, order: MB-DIN Rail Mounting Base

# Advanced Electronic Time Controls 1, 2, and 4 Channels

# Talento 400 & 800 Series24 Hour, 7 Day, 365 Day Multi-Function Time Controls

APPLICATION: The Talento series electronic time switches provide time-of-day control for lighting, heating, air conditioning, pumps, motors or general electrical circuits. The "400" series are 24-hour/7-day controls, while the "800" series units offer 365-day programming with holiday capability through the year 2095. All models offer automatic leap year and daylight savings adjustment. These features are activated when the user enters the current date and respective Daylight Saving Time change-over dates. From that point on, daylight change-over dates will never have to be entered again. A LCD indicates the load status, time-of-day, weekday and on the "800" series, the date. The units can be surface mounted, mounted to a standard DIN rail or within a Grasslin enclosure for stand-alone installations. Enclosure options include indoor or outdoor plastic (with solid or clear cover) or indoor metallic. In addition to the conventional ON/OFF programming format, these units offer pulse and cycle functions. A pulse is simply an ON or OFF event with a duration of one or more seconds. The cycle function provides for a repeating ON event within a selectable total cycle. Both the ON duration and the total cycle duration are independently programmable in minutes or seconds. In addition, the cycle function can be set to repeat indefinitely or to occur within a time and/or date range.







- lighting contactor applicationsCycle programming for pump or other sequencing applications
- Lithium battery backup keeps clock running
- EEPROM Non-Volatile program memory
- Astronomical function on Talento 800 series (Requires Software)

### SPECIFIERS GUIDE

**800 Series:** The contractor shall furnish and install a Grasslin talento 894, 4 channel (892, 2 channel / 891, 1 channel) electronic time switch. Each channel shall be independently programmable. A total of 400 events shall be provided. The time switch shall offer daily, weekly or annual programming capability with up to 99 separate holiday periods of any duration and priority. Three types of switching commands shall be provided; on/off, pulse and cycle. Automatic or user selectable Daylight Saving Time change-over shall be incorporated through the year 2095. An optional Windows<sup>®</sup>-based software program shall be available for remote programming capability. It shall provide full graphic indication of the switching schedule. It shall also include a database of fixed and floating holidays. Floating holidays will automatically repeate each year on the correct date. An astronomical program shall be included which will automatically adjust the switch event schedule according to the changing surrise and sunset times. A LCD shall be provided to indicate the current time, date, switch contact status and program shall be stored in non-volatile (EEPROM) memory. The SPDT switch contacts shall be rated for 16A at 250VAC. Time switch supply voltage shall be 24VAC/DC or 120VAC or 240VAC. The time switch shall be capable of surface or DIN rail mounting or it can be provided in an indoor or outdoor (NEMA 1 or 3R) enclosure. It shall be UL, C-UL recognized, and UL/C-UL listed in optional enclosure.

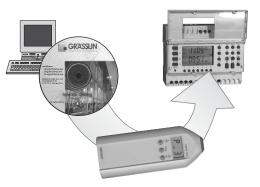
**400 Series:** The contractor shall furnish and install a Grasslin talento 472, 2 channel (471, 1 channel) electronic time switch. Each channel shall be independently programmable. A total of 40 (30, 471) events shall be provided. The time switch shall offer daily or weekly programming. Three types of switching commands shall be provided; on/off, pulse and cycle. Automatic or user selectable Daylight Saving Time change-over shall be incorporated through the year 2095. A LCD shall be provided to indicate the current time, day, switch contact status and program schedule. A lithium battery shall be provided to maintain the current time and date in the event of a power failure for up to three (3) years; the switch program shall be stored in non-volatile (EEPROM) memory. The SPDT switch contacts shall be rated for 16A at 250 VAC. Time switch supply voltage shall be 24VAC/DC or 120VAC, or 240VAC. The time switch shall be capable of surface or DIN rail mounting or it can be provided in an indoor or outdoor (NEMA 1 or 3R) enclosure. It shall be UL, C-UL recognized, and UL/C-UL listed in optional enclosure.

### **Remote PC Programming**

The talento 800 series can be programmed from a PC utilizing the optional **talento dialog set**. The set includes Windows®-based software, the **taxxi** hand-held programmer, CD Rom, interconnect cable and instructions.

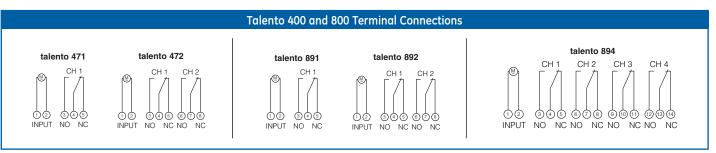
The software contains a schedule of **fixed** and **floating** holidays that can be selected, as required, for the particular application. **Floating** holidays will automatically repeat on the correct date, year after year. Thus, all **fixed** and **floating** holidays need only be programmed once. In addition, an **astronomical** program is included which will automatically adjust the program schedule to follow the changing sunrise and sunset times.

Once the programming is completed on the PC, it is transferred to the **taxxi** hand programmer from which programs are downloaded into one or more installed talento 800 series time controls. The **taxxi** can store up to four independent programs and can also upload a program from the talento into a PC for review or editing.



# Advanced Electronic Time Controls 1, 2, and 4 Channels

PECIFICATIONS		Talento 400/800	) Series Ord	ering Data	
alento 800 Series	MODEL	VOLTAGE	OUTPUT	CHANNELS	PROGRAMS
Input Voltage: 24VAC/VDC, 120VAC, 50/60 Hz Output Rating: 16A Resistive @ 250VAC per channel Output Configuration: SPDT dry contacts for each channel POWER CONSUMPTION: 5 VA BATTERY BACKUP: 6 years, replaceable TEMPERATURE RANGE: -13°F to 131°F (-25°C to 55°C) DISPLAY: AM/PM or Military LCD 1" x 1-11/16" WEIGHT: 18 oz. MOUNTING: Surface & DIN rail (NEMA 1 indoor & NEMA 3R outdoor enclosures available) SHORTEST SWITCHING TIME: One second	Mechanism Only Talento 471-24 Talento 471-120 Talento 891-24 Talento 891-120 Talento 472-24 Talento 472-120 Talento 892-24 Talento 892-120	24VAC/DC, 50/60Hz 120VAC, 50/60Hz 24VAC/DC, 50/60Hz 120VAC, 50/60Hz 24VAC/DC, 50/60Hz 120VAC, 50/60Hz 24VAC/DC, 50/60Hz 120VAC, 50/60Hz	16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT	1 1 1 2 2 2 2 2	30 30 400 30 30 30 400 400
alento 400 Series	Talento 894-24 Talento 894-120	24VAC/DC, 50/60Hz 120VAC, 50/60Hz	16A SPDT 16A SPDT	4	400 400
Input Voltage: 24VAC/VDC, 120VAC, 50/60 Hz Output Rating: 16A Resistive @ 250VAC per channel Output Configuration: SPDT dry contacts for each channel POWER CONSUMPTION: 5 VA BATTERY BACKUP: 3 years TEMPERATURE RANGE: -13°F to 131°F (-25°C to 55°C) DISPLAY: AM/PM or Military LCD 5/8" x 13/16" WEIGHT: 5.5 oz. MOUNTING: Surface & DIN rail (NEMA 1 indoor & NEMA 3R outdoor enclosures available) SHORTEST SWITCHING TIME: One second	NEMA 1 Indoor En GMX 471-I-24 GMX 471-I-120 GMX 891-I-24 GMX 891-I-120 GMX 472-I-24 GMX 472-I-24 GMX 892-I-120 GMX 892-I-120 GMX 894-I-24 GMX 894-I-20	Closure           24VAC/DC, 50/60Hz           120VAC, 50/60Hz           24VAC/DC, 50/60Hz           120VAC, 50/60Hz           24VAC/DC, 50/60Hz           24VAC/DC, 50/60Hz           120VAC, 50/60Hz	16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT 16A SPDT	1 1 1 2 2 2 2 2 2 4 4	30 30 400 400 30 30 30 400 400 400 400



# SRS 3800

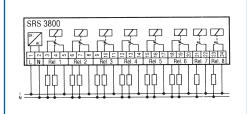
### 7 Day, 8-Channel End Time Switches

**APPLICATION:** Time of day ON/OFF control of 8 circuits of HVAC systems, zone heating, industrial processes, alarm systems, lighting, fans, pumps or other loads in commercial, industrial, institutional, and agricultural facilities. A simple and effective energy management system for small and mid-sized office buildings, schools, banks, malls, and government buildings.

### **FEATURES**

- 8 channels programmable independently or simultaneously
- 7 day programming
- 2 ON and 2 OFF settings per day
- ON-OFF-AUTO Override for each channel
- Holiday "OFF" provision
- Indoor/Outdoor enclosure w/clear door
- Battery backup for 1 month
- 10 Amp, SPDT switching

### SRS 3800 Wiring Diagram





### SPECIFICATIONS

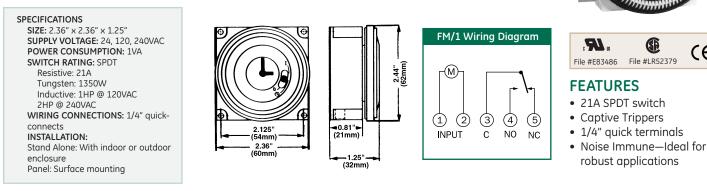
INPUT VOLTAGE: 120VAC 50/60 Hz OUTPUT RATING: 10A Resistive @ 120~240VAC per channel OUTPUT CONFIGURATION: 6 SPDT, 2 SPST (NO) POWER CONSUMPTION: 12VA SHORTEST SWITCHING TIME: 1 minute AMBIENT TEMPERATURE: 14°F to 122°F (-10°C to 50°C) AMBIENT HUMIDITY: 0 to 95% RH, non-condensing MANUAL 3-WAY OVERRIDE: Auto-On-Off "ON" or "OFF" status indicator for each channel WIRING CONNECTIONS: Screw terminals, 12-24AWG

WIRING CONNECTIONS: Screw terminals, 12-24AWG SIZE: 8.38 (213mm) x 7.08" (180mm) x 4.5" (114mm)

SRS 3800 Ordering Data								
MODEL VOLTAGE OUTPUT CHANNELS PROGRAMS								
Plastic Clear Enclo SRS3800-120	o <mark>sure</mark> 120VAC, 60Hz	10A, 6-SPDT & 2-SPST	8	224				

# FM/1 Series 24 Hour, 7 Day

APPLICATION: The FM/1 series electromechanical timer modules are designed to be placed inside a machine control panel, circuit board, or other equipment. It offers up to 21A switching designed for control of heating, ventilating, air conditioning, refrigeration, lighting, security, circulating pumps, spas or any electrical load requiring 24-hour or 7-day scheduling.



FM/1 Series Ordering Data <sup>†</sup>									
	Switch			Minimum		tch Output			
	Program	Carry-Over	On/Off Every	On/Off Time	Туре	Rating			
FM/1 STuZ (synchronous)	24 hr.	No	15 minutes	15 minutes	SPDT	21A Res.			
FM/1 SWuZ (synchronous)	7 day	No	2 hours	2 hours	SPDT	21A Res.			
FM/1 QTuZ (quartz)	24 hr.	7 day	15 minutes	15 minutes	SPDT	21A Res.			
FM/1 QWuZ (quartz) 7 day	7 day	2 hours	2 hours	SPDT	21A Res.				
+For 3-way override switch: Ad	,		, 120V, 240V, 277VAC inpu			1100.			

**FEATURES** 

• 1/4" quick terminals

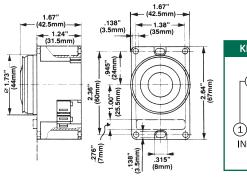
• Very small and compact, fits anywhere • On/Auto/Off manual switch standard

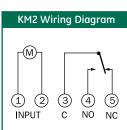
• Captive trippers for easy programming

# **KM2** Series 24 Hour, 7 Day

APPLICATION: The KM/2 series modules are designed to fit into tight locations. It offers up to 21A switching designed for control of heating, ventilating, air conditioning, refrigeration, lighting, security, circulating pumps, spas or any electrical load requiring 24-hour or 7- day scheduling.

SPECIFICATION	IS
SIZE: 1.67" ×	2.64" × 1.67"
POWER CON	ISUMPTION: 1VA
SWITCH RAT	ING: SPDT
Resistive:	21A @ 250V
Motor:	1HP @ 125VAC
	2HP @ 250VAC
Inductive:	8A @ 250VAC
Tungsten:	
WIRING CON	NECTIONS: 1/4" quic
connects	







CE



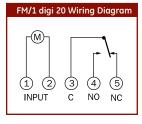
		KM2 Series Ordering De	ata				
		OPERATING FEATURES					
	Switch Program	Туре	Rating				
KM2 STuH	24 hr.	20 minutes	20 minutes	SPDT	21A Res.		
KM2 SWuH	7 day	2 hr. 20 minutes	2 hr. 20 minutes	SPDT	21A Res.		

### **Electronic Timer Modules**

# FM/1 digi 20 24 Hour and/or 7 Day

### SPECIFICATIONS

SWITCH RATING: SPDT 16A Resistive @ 277VAC 1000W Tungsten @ 240VAC INPUT DRAW: 4VA INPUT FREQUENCY: 50/60Hz SHORTEST SWITCHING TIME: 1 minute AMBIENT TEMPERATURE: 0°F to 140°F (-18°C to 60°C) AMBIENT HUMIDITY: 0 to 95% RH, non-condensing WIRING CONNECTIONS: 1/4" quick connects UL and Canadian UL File E 83486



### FEATURES

- 20 programs, up to 140 events per week
- Easy to program with large keys
- 16 Amp @ 277V SPDT switching
- Capacitor backup with 5
   day carryover
- Manual override

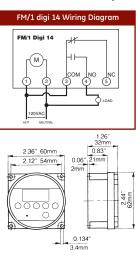




# FM/1 digi 14 24 Hour and/or 7 Day

### SPECIFICATIONS

WIRING CONNECTION: 1/4" Quick Terminals SUPPLY VOLTAGE: 125VAC, 60 Hz. SWITCH OUTPUT: SPDT (Form C Relay Contacts) Switch Rating: 15A General Purpose/Resistive @125VAC 1000W Tungsten @125VAC 1/2HP @125VAC BATTERY BACK-UP: Rechargeable Ni-MH (Holds program and keeps time for up to 60 days) **OPERATING TEMPERATURE:** -10°C to + 55°C ACCURACY: ± 1 sec/day at 20°C NUMBER OF PROGRAMS: 7 ON, 7 OFF BLOCK PROGRAMMING: MON-SUN, MON-FRI, SAT-SUN, MON-SAT, MON-WED-FRI SHORTEST SWITCHING TIME: 1 Minute DISPLAY: Backlit LCD (Illuminates in the dark) **PROTECTION: MOV and Thermal Fuse** APPROVALS: UL &cUL





### **FEATURES**

- Integrated MOV surge protection assures reliable operation
- Thermal fuse protects unit in the event of overload
- 1/4" quick terminals for easy wiring connection
- Rechargeable Ni-MH battery holds program and keeps time for up to 60 days
- Block programming reduces number of events: MON-SUN, MON-FRI, SAT-SUN, MON-SAT, MON-WED-FRI
- Backlit LCD illuminates in the dark
- 14 programs for maximum 98 weekly ON/OFF events

# FM/1 digi 42 24 Hour and/or 7 Day

### SPECIFICATIONS

SWITCH RATING: SPDT 16A Resistive @ 277VAC 1000W Tungsten @ 240VAC INPUT DRAW: 4VA INPUT FREQUENCY: 50/60Hz SHORTEST SWITCHING TIME: 1 minute AMBIENT TEMPERATURE: 0°F to 140°F (-18°C to 60°C) AMBIENT HUMIDITY: 0 to 95% RH, non-condensing WIRING CONNECTIONS: 1/4" quick connects UL and Canadian UL File E 83486

### **FEATURES**

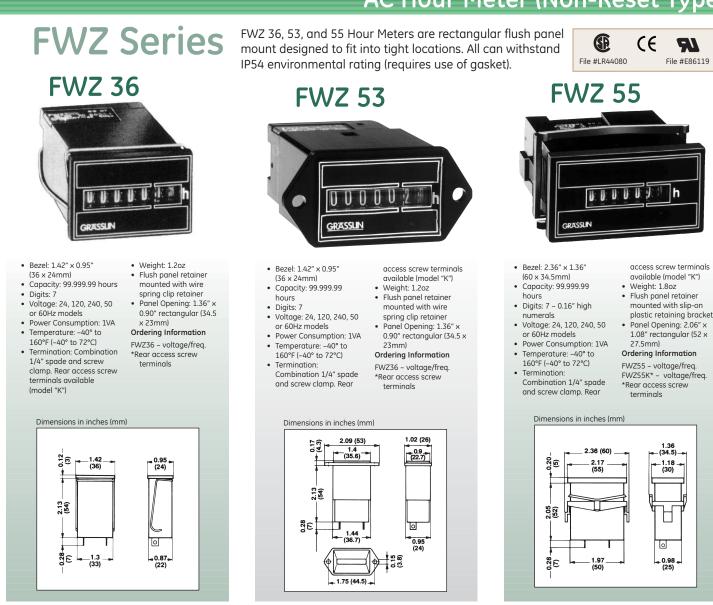
- Automatic Daylight Saving Time Changeover
- 42 programs, up to 294 events per week
- Holiday programming
- 16 Amp @ 277V SPDT switching
- Rechargeable battery backup with carryover of over 4 weeks



C.E.C Certified Title 24, Part 6 on all Digi 42 Models

6	FM/1 Series Ordering Data – FM/1 digi 42 also available for 12VDC input, 24V models are AC/DC.									
Model	Input Voltage	Switch Program	Programs	Max. Weekly On/Off Events	Holiday Program	Reserve Carryover	Relay Output			
FM/1 digi 14-120	120V 50/60Hz	24 hr./7 day	14	98	No	60 days	SPDT 15A			
FM/1 digi 20-120	120V 50/60Hz	24 hr./7 day	20	140	No	1 week	SPDT 16A			
FM/1 digi 20-240	240V 50/60Hz	24 hr./7 day	20	140	No	1 week	SPDT 16A			
FM/1 digi 20-24	24V 50/60Hz	24 hr./7 day	20	140	No	1 week	SPDT 16A			
FM/1 digi 20-277	277V 50/60Hz	24 hr./7 day	20	140	No	1 week	SPDT 16A			
FM/1 digi 42-120	120V 50/60Hz	24 hr./7 day	42	294	Yes	2 weeks	SPDT 16A			
FM/1 digi 42-240	240V 50/60Hz	24 hr./7 day	42	294	Yes	2 weeks	SPDT 16A			
FM/1 digi 42-24	24V 50/60Hz	24 hr./7 day	42	294	Yes	2 weeks	SPDT 16A			

# AC Hour Meter (Non-Reset Type)



All models also available with 1/4" spade terminals without screw clamp.

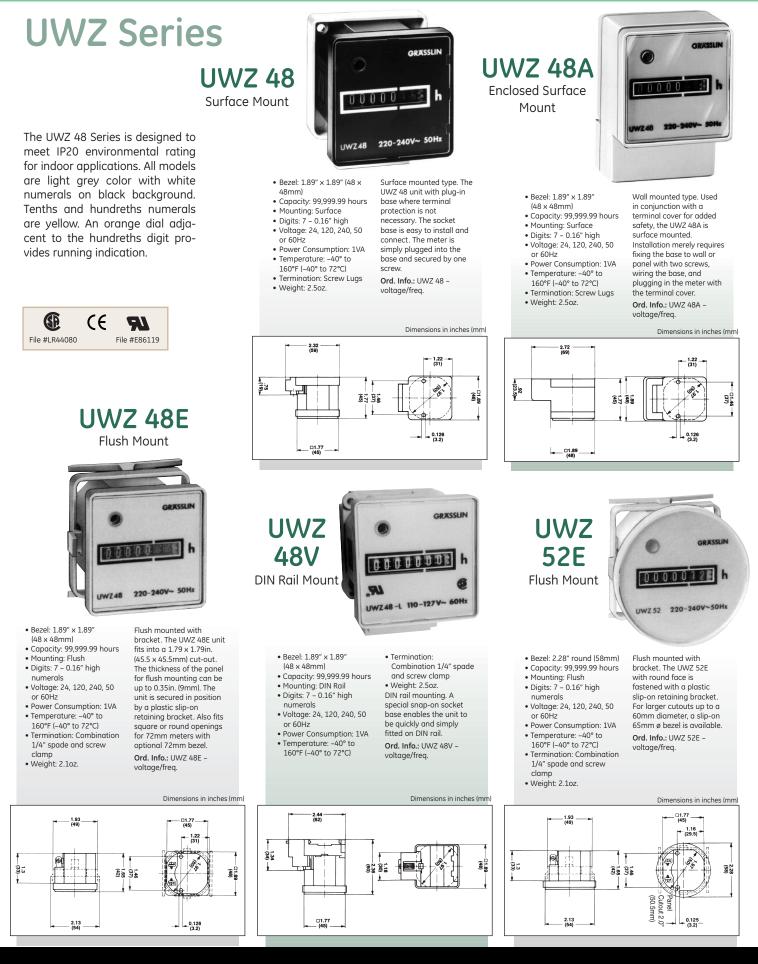


# Frosted Polycarbonate

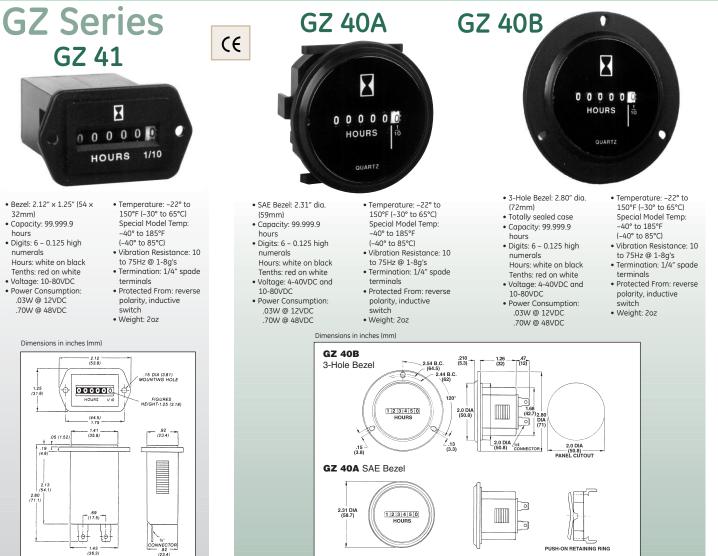
**FWZ 72B** 

Blue-Silver on Colorless

# AC Hour Meter (Non-Reset Type)



# DC Hour Meter (Non-Reset Type)





GZ52A

LED

Diode

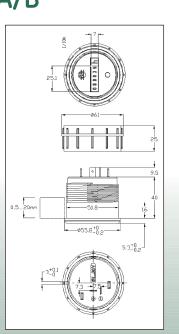
IP 65

CE

8-30VDC

Operating Voltage Current Consumption Accuracy Mechanical Movement Display **Operation Indicator** Bezel Electrical Connection Polarity Protection Mounting Operating Temperature Storage Temperature Environmental Rating Shock Resistance Vibration Resistance Approvals

GZ52B 8-30VDC <3mA @12VDC <3mA @12VDC ±0.5sec/day@20°C ±0.5sec/day@20°C 2-Phase Step Motor 2-Phase Step Motor 6 Digits (99999.9 Hours) 6 Digits (99999.9 Hours) LED Metal (Chrome) Circular Black (Plastic) Circular 1/4" Quick Connectors 1/4" Quick Connectors Diode Flush (screw adj.) Flush (screw adj.) -40 C - 85°C -40 C - 90°C -40°C - 85°C -40°C - 90°C IP 65 DIN EN60068-2-27 DIN EN60068-2-27 DIN EN60068-2-64 DIN EN60068-2-64 CE



# The Hour Meter Without **Electrical Connection** Z Series

The RZ hour meter records the running time of machines vehicles, etc. which vibrate during operation.

The automatic mechanism in this meter converts vibrations into energy which drives the hour meter and minute sweep hand. It is so sensitive, it is capable of operating from the slight vibration of a moving car.

### LEGEND RZ52/RZ60

- RZ52 = Model reference
  - D = Rubber mounting assembly
- h = Horizontal installation
- RZ60 = With adapter ring for 60mm diameter cut-out

ORDERING EXAMPLE:

RZ 52h Vibratory hour meter for horizontal installation

Bezel: 2.28" round (58mm)

30

- v = Vertical installation