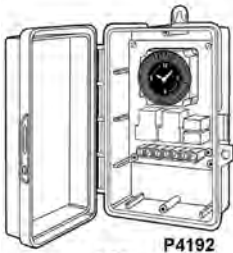


## GRASSLIN - DEFROST TIMER

### GRASSLIN DTMV SERIES



#### SPECIFIERS GUIDE

Furnish and install a Grasslin DTMV40 defrost control which is field adjustable for 120V or 240V operation and shall have defrost initiation times settable to the quarter hour via captive trippers at 15 minute intervals. The defrost timer shall be housed in a NEMA 3R indoor/outdoor plastic enclosure. The relay output will be rated for 40A Resistive, 2HP @ 250VAC. Defrost termination to be by time (and by a remote temperature or pressure switch).

#### SPECIFICATIONS

Switch Rating: 40A Resistive @ 120VAC, 208~240VAC 2HP @ 208~240VAC; 1HP @ 120VAC 16FLA, 90LRA @ 120VAC 12FLA, 52LRA @ 240VAC  
 "F" Terminal: 30A Resistive @ 120~240VAC 1HP @ 120VAC; 2HP @ 208~240VAC  
 Wiring Connections: Screw box lug terminals accommodate up to four #8 AWG wires.  
 Environmental Ratings: Operating Temperature Range: -40°F to 131°F (-40°C to 55°C)  
 Operating Humidity: 0 to 95% non-condensing  
 Dimensions: 8.795" x 6.631" x 2.935" (H x W x D) Shipping Weight: 2 lbs.

#### Ordering Data

#### Time Initiated, Remote Temperature, Pressure, or Time Terminated

PART NO	VOLTAGE	MOUNTING	TIMER	BATTERY BACK-UP Duration	DEFROST		
					FREQUENCY NO/DAY	DURATION	MINIMUM DURATION INTERVAL
DTMV40	120V, 208/240V, 60Hz	NEMA 3R Outdoor Enclosure	Synchronous	N/A	1 to 24	15-180 min.	15 minutes
DTMV40-M	120V, 208/240V, 60Hz	Mechanism Only	Synchronous	N/A	1 to 24	15-180 min.	15 minutes
DTMV40-B	120V, 208/240V, 60Hz	Bracket Mount	Synchronous	N/A	1 to 24	15-180 min.	15 minutes
DTMV40-P	120V, 208/240V, 60Hz	Panel Mount	Synchronous	N/A	1 to 24	15-180 min.	15 minutes
DTQMV40	120V, 208/240V, 60Hz	NEMA 3R Outdoor Enclosure	Quartz	1 week	1 to 24	15-180 min.	15 minutes
DTQMV40-M	120V, 208/240V, 60Hz	Mechanism Only	Quartz	1 week	1 to 24	15-180 min.	15 minutes
DTQMV40-B	120V, 208/240V, 60Hz	Bracket Mount	Quartz	1 week	1 to 24	15-180 min.	15 minutes
DTQMV40-P	120V, 208/240V, 60Hz	Panel Mount	Quartz	1 week	1 to 24	15-180 min.	15 minutes
DT140 Digi 20-120	120V, 50/60Hz	NEMA 3R Outdoor Enclosure	Electronic*	1 week	1 to 8	1-180 min.	1 minute
DT140 Digi 20-240	208/240V, 50/60Hz	NEMA 3R Outdoor Enclosure	Electronic*	1 week	1 to 8	1-180 min.	1 minute

Standard models are also available with 50Hz input in 208/240V \*Rated at 30 Amps

#### Universal Replacement

	PARAGON	PRECISION
	8141-00	6141-00
	8143-00	6143-00
	8145-00	6145-00
	8041-00	6041-00
	8043-00	6043-00
	8045-00	6045-00
	8046-00	
	8047-00	6047-00
	8141-20	6141-20
	8143-20	6143-20
	8145-20	6145-20
	8041-20	6041-20
	8043-20	6043-20
	8045-20	6045-20
	8046-20	
	8047-20	6047-20
	8245-20*	6245-20
	8243-20*	6243-20
	8247-20*	6247-20

GRASSLIN  
DTMV 40 =

#### Recommended Pressure Switches:

Johnson/Penn P170, Ranco 010 series, or Danfoss KP1 series.  
 Pressure range approximately 35-110psi, Cut-in on pressure rise

## GRASSLIN - GENERAL PURPOSE TIMER GM40



- Amber and Green LED Lights Indicate Power and Status
- Easy Multi-Voltage Field Adjustable DIP Switch for 120, 208/240 or 277 VAC
- New Compact VALOX® NEMA 3R Outdoor Enclosure Replaces All Metal Enclosures
- Large Screw Terminals for Easy Wiring #8 AWG
- Ground Lug Termination
- Captive Trippers Can't Be Lost
- Independently Adjustable Trippers at 15 Minute Intervals
- Real Time Clock Face
- NO TOOLS REQUIRED! Our "GUTS" simply snap into existing Grasslin or Intermatic enclosures
- 40 Amp Rated Contacts
- Moisture Resistant Conformal Coated Board

PART NO	DESCRIPTION	VOLTAGE	OUTPUT	BATTERY BACKUP	WILL REPLACE
GM40	24-HOUR ELECTROMECHANICAL, MULTI-VOLTAGE, SPDT, NEMA 3R OUTDOOR ENCLOSURE	120, 208-240, 277VAC	40A DPDT	NO	GM1ST-I-MV & GMDST-I-MV
GM40Q	24-HOUR ELECTROMECHANICAL, MULTI-VOLTAGE, SPDT, NEMA 3R OUTDOOR ENCLOSURE	120, 208-240, 277VAC	40A DPDT	YES	GM1QT-I-MV & GMDQT-I-MV
GM40QW	7-DAY (SKIP-A-DAY/WEEKLY) ELECTROMECHANICAL MULTI-VOLTAGE, SPDT/DPDT, NEMA 3R OUTDOOR ENCLOSURE	120, 208-240, 277VAC	40A DPDT	YES	GM1QW-I-MV & GMDQW-I-MV
GM40W	7-DAY (SKIP-A-DAY/WEEKLY) ELECTROMECHANICAL MULTI-VOLTAGE, SPDT/DPDT, NEMA 3R OUTDOOR ENCLOSURE	120, 208-240, 277VAC	40A DPDT	NO	GM1SW-I-MV & GMDSW-I-MV

## GRASSLIN - GMX SERIES (24-Hour, 7-Day)

24-Hour

### GMX Series (24-Hour / 7-Day)

The GMX Series Time Controls are universal, electromechanical time switches. They are a low cost alternative for applications that do not require more than 21A or 2HP @240VAC. The unit is mounted in a NEMA 1 Indoor or NEMA 3R Outdoor enclosure.

#### APPLICATION

The GMX is a light duty commercial time switch ideal for 24, 120, or 277 VAC single phase applications such as:

- Lighting Control
- Access Control
- Heating, Air-Conditioning
- Agricultural Facilities
- Pumps/Motors/Fan Control
- General Electrical Circuits

#### FEATURES

- 21 Amp. Rating
- NEMA 1 Indoor or 3R Outdoor Enclosure
- SPDT Switch
- Captive trippers with intervals of 15 minutes on 24-hour models (2hours on 7-day models)
- True clock face, easy to set
- Finger safe terminals
- Enclosure provides space for field added contactor or other accessories.



Part Number	Voltage	Output	Battery Backup
GMXQT-I-120	120VAC, 50/60 Hz	21A SPDT	Yes
GMXQT-I-24	24VAC, 50/60 Hz; 12 - 24 VDC	21A SPDT	Yes
GMXQT-I-240	240VAC, 50/60 Hz	21A SPDT	Yes
GMXQT-O-120	120 VAC, 50/60 Hz	21A SPDT	Yes
GMXQT-O-120	120 VAC, 50/60 Hz	21A SPDT	Yes
GMXQT-O-24	24 VAC, 50/60 Hz; 12 - 24 VDC	21A SPDT	Yes
GMXQT-O-240	240 VAC, 50/60 Hz	21A SPDT	Yes
GMXQW-I-120	120 VAC, 50/60 Hz	21A SPDT	Yes
GMXQW-I-24	24 VAC, 50/60 Hz; 12 - 24 VDC	21A SPDT	Yes
GMXQW-I-240	240 VAC, 50/60 Hz	21A SPDT	Yes
GMXQW-O-120	120 VAC, 50/60 Hz	21A SPDT	Yes
GMXST-I-120	120VAC, 60 Hz	21A SPDT	No
GMXST-I-24	24VAC, 60 Hz	21A SPDT	No
GMXST-I-240	240VAC, 60 Hz	21A SPDT	No
GMXST-O-120	120 VAC, 60 Hz	21A SPDT	No
GMXST-O-24	24 VAC, 60 Hz	21A SPDT	No
GMXST-O-240	240 VAC, 60 Hz	21A SPDT	No
GMXSW-I-120	120VAC, 60 Hz	21A SPDT	No
GMXSW-I-24	24 VAC, 60 Hz	21A SPDT	No
GMXSW-I-240	240 VAC, 60 Hz	21A SPDT	No
GMXSW-O-120	120 VAC, 60 Hz	21A SPDT	No
GMXSW-O-24	24 VAC, 60 Hz	21A SPDT	No
GMXSW-O-240	240 VAC, 60 Hz	21A SPDT	No

Compressors,  
Chillers, Condensers

Motors

Electrical

Heating  
Components

Indoor Air  
Quality

Thermostats

Oils &  
Chemicals

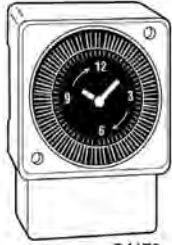
Accessories, Supplies  
& Commodities

Tools &  
Instruments

Refrigeration

## GRASSLIN - MIL 72 SERIES (24-Hour, 7-Day)

### 24-HOUR TIME CONTROL



Time based control of lighting, ventilating, heating, cooling or other electrical loads in commercial and industrial applications. The MIL 72 time switches are available with a 24-hour or 7-day program dial with a SPDT switch (form "C" contact). The MIL 72A series is intended for surface mounting. The control is completely enclosed in a plastic housing and includes a terminal cover and sub-base for installation and hard wiring. The MIL 72E is intended for flush (panel) mounting. All units are supplied with a clear plastic cover.



### FEATURES

- Synchronous drive or quartz drive with battery backup
- 21A SPDT switch
- Captive trippers with interval as low as 15 minutes
- With or without 3-way override
- Real clock face
- Surface, flush, or DIN rail mount

**Complete Part Number = MIL 72A or E Followed by Suffix Code and Voltage.**

Example: MIL 72A STuZ-24

#### SYNCHRONOUS

WITHOUT OVERRIDE	WITH 3-WAY OVERRIDE	QUARTZ 7-DAY CARRY-OVER**With 3-Way Override	INPUT VOLTS	SWITCH RATING 240 V RES	MINIMUM ON/OFF TIME	EVENT ON/OFF TIME
STuZ-24	STuZH-24	QTuZH-24	24 VAC	SPDT 21A	15 min.	ON 1/4 hr.
STuZ-120	STuZH-120	QTuZH-120	120 VAC	SPDT 21A	15 min.	ON 1/4 hr.
STuZ-240	STuZH-240	QTuZH-240	208/240 VAC	SPDT 21A	15 min.	ON 1/4 hr.
--	STuZH-277	--	277 VAC	SPDT 21A	15 min.	ON 1/4 hr.

### 7-DAY TIME CONTROL

MIL 72A — Surface Mount

MIL 72E — Flush Mount

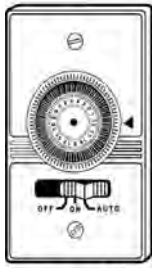
#### SYNCHRONOUS

WITHOUT OVERRIDE	WITHOUT 3-WAY OVERRIDE	QUARTZ 7-DAY CARRY-OVER**With 3-Way Override	INPUT VOLTS	SWITCH RATING 240 V RES	MINIMUM ON/OFF TIME	EVENT ON/OFF TIME
SWuZ-24	SW7ZH-24	QWuZH-24	24 VAC	SPDT 21A	2 hr.	ON 2 hr.
SWuZ-120	SWuZH-120	QWuZH-120	120 VAC	SPDT 21A	2 hr.	ON 2 hr.
SWuZ-240	SWuZH-240	QWuZH-240	208/240 VAC	SPDT 21A	2 hr.	ON 2 hr.
--	SWuZH-277	--	277 VAC	SPDT 21A	2 hr.	ON 2 hr.

\*\*Quartz units also operate on DC voltages down to 12 VDC.

## GRASSLIN - KM2 IN-WALL TIMER (24-Hour, 7-Day)

### 24-HOUR



### KM2 In-Wall Timer 24-Hour, 7 Day

Replaces standard wall switch (toggle) to provide automatic control of outdoor or indoor lighting, fans, pumps, office machines, and other types of circuits. Captive trippers are easy to set, can't be lost. 72 trippers provide up to 36 ON/OFF events in 24 hour period. Three way, OFF/AUTO/ON override switch provides continuous ON or OFF positions. UL Listed.

#### FEATURES

- Captive trippers with 20 minute switching interval (2-1/3 hr. for 7 day)
- SPST 20A, 1HP @ 120V switch
- Replaces standard wall switches
- Multiple plates available
- Reliable synchronous timer motor
- Easy wiring and installation
- Works with fluorescent and compact fluorescent lights

#### SPECIFICATIONS

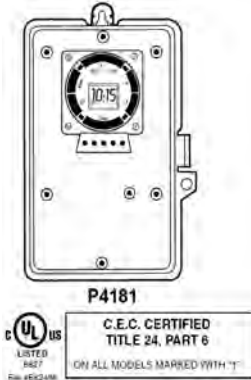
- SWITCH RATING:
  - 20A @ 120VAC, 60Hz
  - 2400W Resistive
  - 8A Inductive
  - 1HP @ 120VAC
  - 1350W Tungsten
- ENVIRONMENTAL RATINGS:
  - Operating Temperature Range: -40°F to 180°F (-40°C to 85°C)
  - Operating Humidity: 0 to 95% non-condensing
- WIRING CONNECTIONS:
  - (3) #14AWG color coded lead wires
  - Hot – Black
  - Switched – Red
  - Neutral – White

PART NO	WALLPLATE CONFIGURATION	SWITCH
KM2 ST-CS	1 Gang	SPST
KM2 STu-1G	1 Gang, 3 Way	SPDT
KM2 ST-2G	2 Gang, Toggle	SPST
KM2 STu-2G	2 Gang, Toggle, 3 Way	SPDT
KM2 ST-3G	3 Gang, Toggle	SPST
KM2 ST-4G	4 Gang, Toggle	SPST
KM2 ST-2D	2 Gang, Decorator	SPST
KM2 ST-3D	3 Gang, Decorator	SPST
KM2 ST-2R	2 Gang, Receptacle	SPST
KM2 STST-2G	2 Gang, Dual Timers	(2) SPST

### 7-DAY

PART NO	WALLPLATE CONFIGURATION	SWITCH
KM2 SW-1G	1 Gang	SPST
KM2 SWu-1G	1 Gang, 3 Way	SPDT
KM2 SW-2G	2 Gang, Toggle	SPST
KM2 SW-3G	3 Gang, Toggle	SPST
KM2 SW-4G	4 Gang, Toggle	SPST
KM2 SW-2D	2 Gang, Decorator	SPST
KM2 Sw-3D	3 Gang, Decorator	SPST
KM2 SW-2R	2 Gang, Receptacle	SPST
KM2 SWSW-2G	2 Gang, Dual Timers	(2) SPST

## GRASSLIN - GMX digi SERIES (24-Hour, 7-Day)



- 16A @ 240V switch.
- Indoor or outdoor enclosure.
- Rechargeable battery backup with 1 week or more carryover.
- Optional clear cover allows viewing timer clock face without opening cover.

### Enclosure Options, Substitute the Following for "X":

- "I" = NEMA 1 Indoor Enclosure
- "IC" = NEMA 1 Indoor Enclosure with Clear Cover
- "O" = NEMA 3R Outdoor Enclosure
- "OC" = NEMA 3R Outdoor Enclosure with Clear Cover
- "IM" = NEMA 1 Indoor Metal Enclosure

NOTE: 6 V and 12 VDC Models Available

PART NO	TIMER VOLTAGE	SWITCH	AMPS	PROGRAMS
GMX digi 20-"X"-120	120 V, 50/60 Hz	SPDT	16	20
GMX digi 20-"X"-240	208/240 V, 50/60 Hz	SPDT	16	20
GMX digi 20-"X"-24	24 V, 50/60 Hz	SPDT	16	20
GMX digi 20-"X"-277	277 V, 50/60 Hz	SPDT	16	20
GMX digi 42-"X"-120	120 V, 50/60 Hz†	SPDT	16	42
GMX digi 42-"X"-240	208/240 V, 50/60 Hz†	SPDT	16	42
GMX digi 42-"X"-24	24 V, 50/60 Hz†	SPDT	16	42
GMX2 digi 42-"X"-120†	120 V, 50/60 Hz	(2) SPDT	16	42
GMX2 digi 42-"X"-240†	208/240 V, 50/60 Hz	(2) SPDT	16	42
GMX2 digi 42-"X"-24†	24 V, 50/60 Hz	(2) SPDT	16	42

## GRASSLIN - digi 42/2 (24 HOUR, 7-DAY)



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

#### Application:

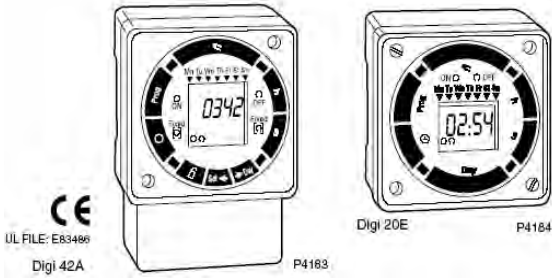
This unit can be used to control 240VAC two-phase loads such as pumps, compressors, etc. It can also be used to provide time based control of two circuit lighting, ventilating, heating, cooling or other electrical loads in commercial and industrial applications. The Digi 42/2 time switches are programmable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

#### 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

PART NO	TIMER VOLTAGE	MOUNTING*	SETPOINT PROGRAMS	MAXIMUM WEEKLY ON/OFF EVENTS	RELAY OUTPUT GENERAL PURPOSE RATING
Digi 42/2-120††	120 V, 50/60 Hz	Flush or Surface	42	294	(2) SPDT, 16 A, 240 VAC
Digi 42/2-240†	240 V, 50/60 Hz	Flush or Surface	42	294	(2) SPDT, 16 A, 250 VAC
Digi 42/2-24†	24 V, 50/60 Hz	Flush or Surface	42	294	(2) SPDT, 16 A, 250 VAC

## GRASSLIN - digi 20, digi 42 SERIES (24-Hour, 7-Day)



- Automatic Daylight Time changeover with Digi 42
- Holiday program with Digi 42.
- Rechargeable battery backup with 1 week or more carryover.
- 16 amp, SPDT switching.

**C.E.C. CERTIFIED  
TITLE 24, PART 6**

ON ALL MODELS MARKED WITH "†"

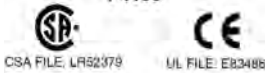
PART NO	TIMER VOLTAGE	MOUNTING*	SETPOINT PROGRAMS	MAXIMUM WEEKLY ON/OFF EVENTS	RELAY OUTPUT GENERAL PURPOSE RATING
Digi 20A — 120	120 V, 50/60 Hz	Surface or DIN Rail	20	140	SPDT, 16 A, 250 V
Digi 20A — 240	208/240 V, 50/60 Hz	Surface or DIN Rail	20	140	SPDT, 15 A, 250 V
Digi 20A — 24	24 V, 50/60 Hz	Surface or DIN Rail	20	140	SPDT, 16 A, 250 V
Digi 20A — 277	277 V, 50/60 Hz	Surface or DIn Rail	20	140	SPDT, 16 A, 250 V
Digi 42A — 120†	120 V, 50/60 Hz	Surface or DIN Rail	42	294	SPDT, 16 A, 250 V
Digi 42A — 240†	208/240 V, 50/60 Hz	Surface or DIN Rail	42	294	SPDT, 16 A, 250 V
Digi 42A — 24†	24 V, 50/60 Hz	Surface or DIn Rail	42	294	SPDT, 16 A, 250 V
Digi 20E — 120	120 V, 50/60 Hz	Flush Panel	20	140	SPDT, 16 A, 250 V
Digi 20E — 240	208/240 V, 50/60 Hz	Flush Panel	20	140	SDPT, 16 A, 250 V
Digi 20E — 24	24 V, 50/60 Hz	Flush Panel	20	140	SPDT, 16 A, 250 V
Digi 20E — 277	277 V, 50/60 Hz	Flush Panel	20	140	SPDT, 16 A, 250 V
Digi 42E — 120†	120 V, 50/60 Hz	Flush Panel	42	294	SDPT, 15 A, 250 V
Digi 42E — 240†	208/240 V, 50/60 Hz	Flush Panel	42	294	SDPT, 16 A, 250 V
Digi 42E — 24†	24 V, 50/60 Hz	Flush Panel	42	294	SPDT, 16 A, 250 V

## GRASSLIN - FM/1 SERIES (24-Hour, 7-Day)



The FM/1 series 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.

- Authentic clock face.
- 21 A SPDT switch.
- Captive Trippers.



PART NO	MINIMUM ON/OFF TIME	SWITCH PROGRAM	CARRY-OVER	PROGRAM ON/OFF EVERY	SWITCH OUTPUT	
					Type	Rating
FM/1 StuZ (synchronous)	15 minutes	21 A Res.	No	15 minutes	SPDT	21 A Res.
FM/1 SWuZ (synchronous)	2 hours	21 A Res.	No	2 hours	SPDT	21 A Res.
FM/1 QtuZ (quartz)	15 minutes	21 A Res.	7 day	15 minutes	SPDT	21 A Res.
FM/1 QWuZ (quartz)	2 hours	21 A Res.	7 day	2 hours	SPDT	21 A Res.

### NOTES:

1. Available with 24 V, 120 V, 240 V, 277 VAC input.
2. Quartz also available with 12 V, 30 V, 60 V, or 120 VDC input.

## GRASSLIN - FM/1 digi 20-120 (24 Hour, 7-Day)



The FM/1 digi 20 is a compact electronic 24 hour/ 7 day time switch module with heavy duty relay contacts for switching low or line voltage loads. Applicable for time of day control of pumps, fans, heaters, HVAC control circuits, lighting, machinery and many other types of commercial, industrial, and agricultural equipment. The FM/1 digi 20 features large keys with unique "circular pattern" for easy programming, an easy-to-read LCD display and capacitor backup to retain program memory during power outages.

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

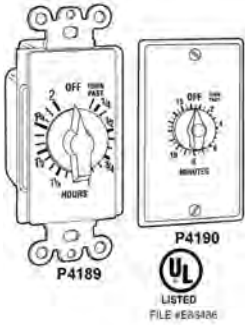
## GRASSLIN - FM/1 digi 42-120 (24 Hour, 7-Day)



The FM/1 digi 20 is a compact electronic 24 hour/ 7 day time switch module with heavy duty relay contacts for switching low or line voltage loads. Applicable for time of day control of pumps, fans, heaters, HVAC control circuits, lighting, machinery and many other types of commercial, industrial, and agricultural equipment. The FM/1 digi 20 features large keys with unique "circular pattern" for easy programming, an easy-to-read LCD display and capacitor backup to retain program memory during power outages.

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

## GRASSLIN - KLT SERIES COUNTDOWN/TWIST TIMERS SPRING WOUND INTERVAL/COUNTDOWN TIME SWITCH



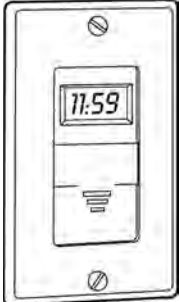
- Timing ranges from 5 minutes to 12 hours.
- SPST 20 A, 2 HP switch.
- Decorator style dial plate fits both standard and decorator wallplates.
- Aluminum wallplate available.
- Fits in single or multigang wallboxes.
- May be flush panel mounted.
- Normally closed version (15 and 30 min. only)

PART NO		TIME CYCLE
NO-HOLD MODELS WITH IVORYKNOB & PLATE	HOLD MODELS WITH IVORYKNOB & PLATE	
KLT-5M	KLT-5MH	0-5 Minutes
KLT-15M	KLT-15MH	0-15 Minutes
KLT-30M	KLT-30MH	0-30 Minutes
KLT-60M	KLT-60MH	0-60 Minutes
KLT-2H	KLT-2HH	0-2 Hours
KLT-4H	KLT-4HH	0-4 Hours
KLT-6H	KLT-6HH	0-6 Hours
KLT-12H	KLT-12HH	0-12 Hours

Example: KLT-30M-W — Add “-W” to above for white knob and plate.

Example: KLT-30MH-A — Add “-A” to above for aluminum plate and plastic knob.

## GRASSLIN - ET 616 ELECTRONIC COUNTDOWN TIMER



- Electronic version of the manual countdown timer.
- Operates on 120 V or 277 VAC — No neutral wire required.
- Mounts in standard wallbox.
- Single button On/Off operation.
- Backlighted LCD display.
- Preset time countdown; 5, 15, 30, 60 minutes, 3, 6, 9, 12 hours.
- Switch holds position during a power failure (on or off), restarts at preset time when power is restored.
- UL and cUL listed.

**P4191**

PART NO	VOLTAGE	SWITCH RATING	COUNTDOWN TIMING
ET616-CS	120 or 277 VAC, 50/60 Hz	1000 W (Tung.) @ 120 V; 800 W (Bal.) @ 120 V; 1500W (Tung.) @ 277 V; 1200W (Bal.) @ 277 V	5, 15, 30, 60 Min. 3, 6, 9, 12 Hr.

Compressors,  
Chillers, Condensers

Motors

Electrical

Heating  
Components

Indoor Air  
Quality

Thermostats

Oils &  
Chemicals

Accessories, Supplies  
& Commodities

Tools &  
Instruments

Refrigeration

## GRASSLIN - ET724 Electronic In-Wall Timer

24 Hour, 7 Day

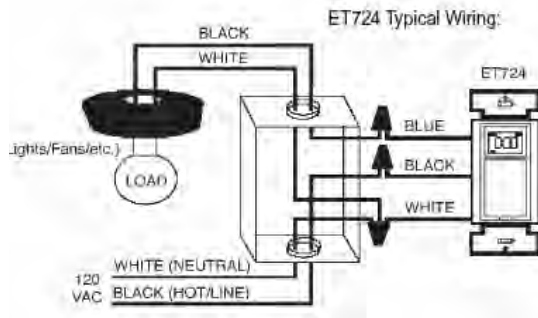


Replaces standard wall switch (toggle) to provide automatic control of outdoor or indoor lighting, fans, pumps, office machines, and other types of circuits. The unit can be programmed for 7-ON and 7-OFF events daily or weekly. AUTO and Manual Modes are clearly displayed along the time of day. The ET724 is designed to be mounted in a standard decorator plate for a sleek modern look.

### FEATURES

- Sleek profile
- Easy to program
- Single push-button control
- Mounts in standard wallbox
- Built-in rechargeable battery never needs replacement
- LCD display
- Flush mounted design
- Non-volatile memory
- Captive cover plate
- UL Listed and CSA Approved

**SPECIFIERS GUIDE:** Furnish and install a Grasslin model ET724 electronic in-wall 7 day time control. The timer shall fit into a standard 2-1/2" deep single or multigang wall box and decorator style wallplate. It shall not protrude from the wall more than 1/8" and have a captive cover plate over the programming keys. The unit shall be capable of switching a 20 amp ballast or general purpose load or 1 HP motor and have seven independently programmable events. The battery backup will be a rechargeable NiMH type that does not require replacement.



### SPECIFICATIONS

**Input:** 120VAC, 60 Hz  
**Switch Rating:** 20A Ballast Switch Rating @ 120VAC, 20A Inductive Switch Rating @ 120VAC, 2400W Resistive, 1HP Motor  
**Operating Temperature:** 32° to 122°F (0° to 50°C)  
**Faceplate Color:** White  
**Timing Accuracy:** Less Than 1% Deviation  
**Wiring Connections:** 6" Leadwires

### ORDERING DATA

PART NO	DESCRIPTION	WALLPLATE CONFIGURATION	SWITCH
ET724	Electronic 24-hr./7-day (White)	1 Gang Decorator (Not Included)	SPST

## GRASSLIN - T25/16 PLUG-IN TIMER



### FEATURES

- 24 hour electromechanical plug-in timer
- Captive trippers
- Programming resolution of 15 minutes
- Easy to program
- Manual override

### SPECIFICATIONS:

**Input Voltage:** 120VAC  
**Switch Rating:** 15A @ 125VAC  
**Tungsten:** 1250W, TV-4 1/3HP  
 Polarized 2-conductor plug and receptacle

### ORDERING DATA

PART NO	SWITCH PROGRAM	RESERVE	PROGRAM ON/OFF EVERY	SHORTEST SWITCHING TIME
T25/16	24 hour	No	15 minutes	15 minutes

## GRASSLIN - T35/16CS PLUG-IN TIMER



### FEATURES

- 24 hour electromechanical plug-in timer
- Captive trippers
- Programming resolution of 15 minutes
- Easy to program
- Manual override

### SPECIFICATIONS:

**Voltage:** 110-120VAC  
**Switch Rating:** 15A Resistive  
**Ambient Temperature Range:** 14°F to 122°F Grounded 3-conductor plug and receptacle

### ORDERING DATA

PART NO	SWITCH PROGRAM	RESERVE	PROGRAM ON/OFF EVERY	SHORTEST SWITCHING TIME
T35/16-CS	24 hour	No	15 minutes	15 minutes

## GRASSLIN - T240 PLUG-IN TIMER



### FEATURES

- 24 hour electromechanical plug-in timer
- Captive trippers
- Programming resolution of 15 minutes
- Heavy Duty 20A, 4800W
- Manual override

### SPECIFICATIONS:

**Voltage:** 240VAC, 60Hz  
**Switch Rating:** 20A Resistive  
**Ambient Temperature Range:** 14°F to 122°F Grounded 3-conductor plug and receptacle

### ORDERING DATA

PART NO	SWITCH PROGRAM	RESERVE	PROGRAM ON/OFF EVERY	SHORTEST SWITCHING TIME
T240	24 hour	No	15 minutes	15 minutes