

700 Series Model Encodement

700 MODEL	R Case Style	R Resetability	001 Additional Feature	O Logo*	0512D0612A Operating Voltage
700 = (2-wire hour meter, AC/DC only)	D F G ¹	R = Electrically resettable N = Non-resettable	001 = 5mm, non-backlit display (Standard) 091 = Epoxy filled unit (moisture resistant, Q, R (5mm), cases only)	O = Custom Logo N = No Logo	0512D = 5-12VDC nom., 4.75-15VDC abs. 1248D = 12-48VDC nom., 9-60VDC abs. 48150D = 48-150VDC nom., 36-185VDC abs.
701 = (3-wire hour meter, AC/DC or DC-only)	J L ² Q		601 = 7mm, backlit display (R or S case only)		0512D0612A = 5-12VDC nom., 4.75-15VDC abs. 6-12VAC nom., 5-15VAC abs.
703 = (3-wire counter, AC/DC or DC-only)	R S Y Z		701 = 7mm, non-backlit display (R or S case only)		1248D2060A = 12-48VDC nom., 9-60VDC abs. 20-60VAC nom., 15-75VAC abs. 48150D100230A = 48-150VDC nom., 36-185VDC abs. 100-230VAC nom., 75-270VAC abs.

1. Only model offered: 700GN001N1248D2060A

2. Only models offered: 700LN001N1248D2060A, 700LN001N48150D100230A and 701LN001N1248D

* Custom logos are available
Backlight available on 7mm R or S cases only.

700 Series Wiring Guide

Case Style	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
D, F, J, Q, R (5mm), Y & Z	V+	V-	I	R	N/A	N/A
G	V+	V-	N/A	N/A	N/A	N/A
L	V+	V-	I	N/A	N/A	N/A
R (7mm), S	V+	V-	R	I	L	N/A

V+ Operating voltage

V- Common (ground)

I Enable (Optional, use operating voltage to power this pin to record elapsed time (701) or increment count (703).)

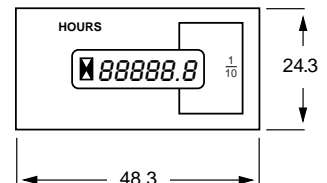
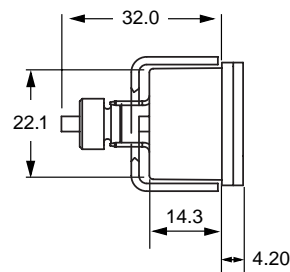
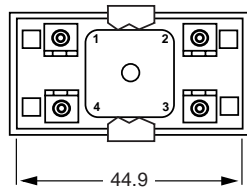
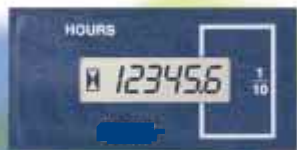
R Reset (Optional, supply with operating voltage when unit is to be reset to 0.)

L Lighting control (Optional, 9-15VDC absolute only, regardless of operating voltage.)

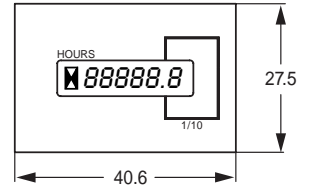
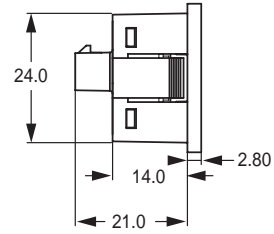
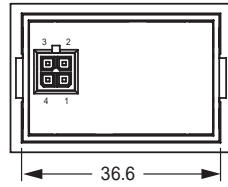
NC No connection

700 Series Dimensions: mm

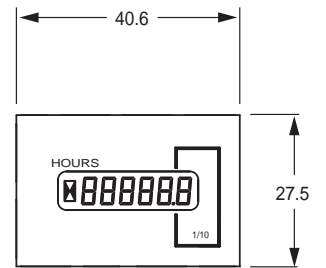
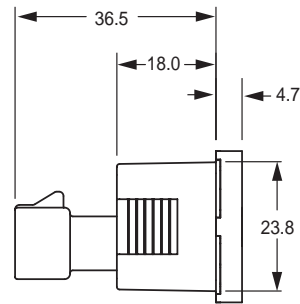
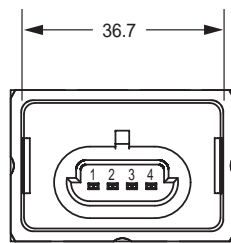
D Case:



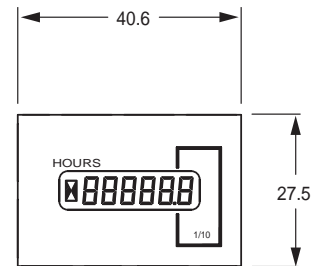
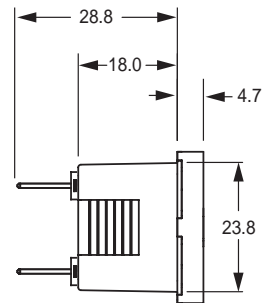
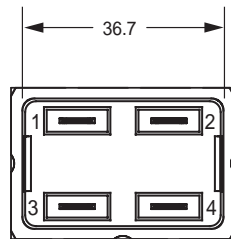
L Case:



Y Case:



Z Case:



700 Series Specifications

Case Style	Bezel Shape	Lens Material	Case Material	IP Rating Front/Rear	Termination	UL ⁵ /CE	Suggested Panel Cutout mm
D	Rectangular	Acrylic	ABS	65/50	3/16" Spade	Yes	45.0 x 22.2 (1.77 x 0.87)
F	Hexagonal	Acrylic	ABS	65/65	1/4" Spade	Yes	36.8 x 24.1 (1.45 x 0.95)
G	Hexagonal	Acrylic	ABS	65/65 ¹	Packard (2 pin) ²	Yes	36.8 x 24.1 (1.45 x 0.95)
J	Hexagonal	Acrylic	ABS	65/65 ¹	Packard (4 pin) ³	Yes	36.8 x 24.1 (1.45 x 0.95)
L	Rectangular	Polycarbonate	Polycarbonate	65/40	Molex ⁴	Yes	36.8 x 24.1 (1.45 x 0.95)
Q	Round	Glass	Polycarbonate	65/50 ⁶	1/4" Spade	Yes	ø52 (ø2-1/16)
R (5mm display)	Round	Glass	Polycarbonate	65/50 ⁶	3/16" Spade	Yes	ø52 (ø2-1/16)
R (7mm display)	Round	Glass	Polycarbonate	65/50	1/4" Spade	Yes	ø52 (ø2-1/16)
S	Square	Glass	ABS	52/50	1/4" Spade	Yes	45.0 x 45.0 (1.77 x 1.77)
Y	Rectangular	Acrylic	ABS	65/65 ¹	Packard (4 pin) ³	Yes	36.8 x 24.1 (1.45 x 0.95)
Z	Rectangular	Acrylic	ABS	65/65	1/4" Spade	Yes	36.8 x 24.1 (1.45 x 0.95)

Display	6 digit LCD, 5 or 7mm high	
Range & Resolution	Hour meters:	99,999.9 hours
	Counters:	999,999 counts
Accuracy	Hour meters:	0.1%
	Counters:	±1 count
Humidity	95%, non-condensing at 38°C	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-50°C to +85°C	
Mechanical Shock	SAE J 1378, 55g	
Mechanical Vibration	SAE J 1378, 20g	
Operating Frequency (AC powered units)	48 to 440 Hz	
Memory	Main power must be applied for 5 seconds to arm memory (with no loss of time/counts). EEPROM, data retained for 25+ years without power.	
Current Consumption (Power Terminals)	0.5mA max. @ 5VDC (0512D models) 0.8mA max. @ 12VDC (1248D models) 1.0mA max. @ 120VAC 2.0mA max. @ 230VAC	
Input Signal (DC-only)	Counters (703 only):	500 Hz. max., 50% duty cycle (1ms low, min., between consecutive highs)
Input Signal (AC/DC)	Hour meters (701 only):	Power must be applied for 0.5s, min., to accumulate time.
	Counters (703 only):	1 Hz. max., 50% duty cycle (500ms low, min., between consecutive highs)
Reset	5ms min. at operating voltage. Main power must be applied for a minimum of 250ms prior to reset signal.	

NOTES:

1. Mating connector must be installed.
2. Equivalent to Delphi-Packard connector P/N 12162000 2-pin.
3. Equivalent to Delphi-Packard connector P/N 15336035 4-pin.
4. Equivalent to Molex connector P/N 43045-0412.
5. Subject to change without notification
6. R(5mm) and Q housings also available in a 65/65 version (see model encodement).