

700 Series

RS 185-5946
 RS 185-5952
 RS 185-5968
 RS 185-5974
 RS 185-5980

703 LCD Solid State Counter

Curtis, a world leader in Timing and Counting Products, introduce a brand new LCD Solid State electronic Counter featuring AC and DC voltage in wide operating bands.

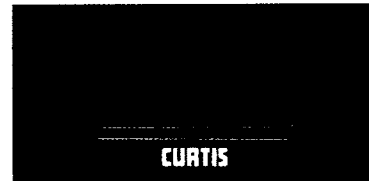
Model 703 features a range of resettable or non-resettable electronic counters in either AC or DC voltages. Designed for industrial and commercial application, these instruments integrate a custom CMOS/EEPROM chip and LCD into a single module to ensure exceptional reliability even in severe environments, i.e. operational temperature range -40°C to +85°C with very high shock and vibration specification.

The count record up to 999,999 counts is retained in non-volatile memory without power for up to 25 years. The high technology employed ensures that the 700 series will outlast the equipment that they monitor.

Available in five International standard case styles which feature minimal behind panel dimensions. The 703 features separate input and reset pins enabling display to be maintained at all times if required.

In DC voltage input to the 703 counts at speeds up to 500Hz or 1 ms on/off while as an AC counter the maximum is 1Hz i.e. 500 ms on/off.

Standard character height is 5mm, with 7mm and 7mm backlit units available to special order.

**Benefits**

- **High reliability**
- **Available in five panel mount configurations to meet International standards**
- **Minimal "behind panel" profile**
- **No moving parts**
- **Exceptional shock, vibration and environmental specifications**
- **Face sealed to IP65 rating or R & Q case**
- **Operational temperature range -40°C to + 85°C**
- **Non-Volatile memory with data retention in excess of 25 years**
- **Various standard and custom logos**
- **Resettable and non-resettable**
- **Wide voltage bands to reduce stock holding requirements**
- **Accurate to +/- 0.04%.**

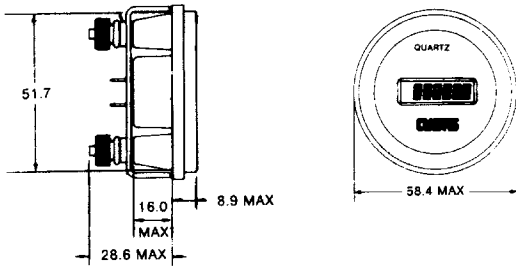
CURTIS

TECHNOLOGY YOU CAN COUNT ON

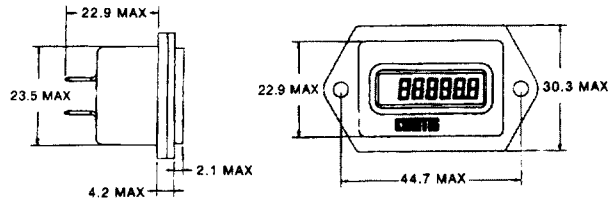
703 Dimensions

Technical Specifications

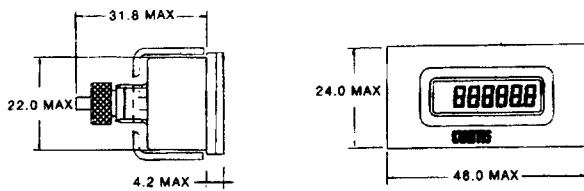
R



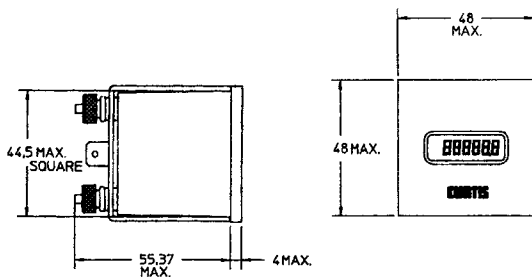
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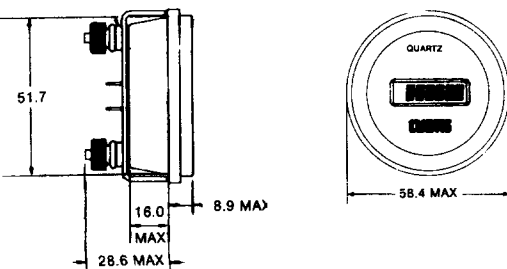
D



S



Q



PIN: 1: V +
2: V -
3: Signal Input + (Enable)
4: Reset + (Optional)

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature: | -40°C + 85°C |
| Storage Temperature: | -50°C + 90°C |
| Shock: | 55g at 11ms (SAE J 1378) |
| Vibration: | 20g at 10-80Hz (SAE J 1378) |
| Recording Capacity: | 999,999 Counts |
| Accuracy: | +/- 0.04% (-40°C to +85°C) |
| Spade Terminals: | 3/16" on R, T & D, 1/4" on Q & S |
| Face/Bezel: | Sealed to IP65 (Models R & Q) |
| Display Resolution: | 1 Count |
| Humidity: | 90% RH (non condensing at 38°C) |
| Character Height: | 5mm (Models Q & S also available with 7mm height with or without backlighting) |
| Maximum Count Rate: | DC Voltage - 500 Hz ie 1ms on/off AC Voltage - 1 Hz ie 500ms on/off |
| Voltage Ranges: | 5/12VDC Nominal, 4.5/15VDC Range 12-48VDC Nominal, 9/60VDC Range 20/60VAC Nominal, 15/75VAC Range 100-230VAC Nominal, 75/270VAC Range |

Model Reference Chart

| | | | | | |
|-------|------------|------------------------|---------|----------|------------|
| 703 | R | N | 1248D | 001 | O |
| Model | Case Style | R-Reset N-Non Reset | Voltage | OEM Code | Logo Style |

MAXIMUM CURRENT CONSUMPTION

| Voltage Range | mA @ Low | mA @ High |
|---------------|---------------|---------------|
| 05 12 VDC | 0.5 @ 5 VDC | 10.2 @ 12 VDC |
| 1248 VDC | 0.8 @ 12 VDC | 5.1 @ 48 VDC |
| 2060 VAC | 1.0 @ 20 VAC | 3.2 @ 60 VAC |
| 100230 VAC | 1.0 @ 100 VAC | 1.8 @ 230 VAC |

AC frequency range : 48 to 440 Hz

CASE SPECIFICATION & CUTOUT DIMENSIONS

| Type | Weight | Cutouts |
|------|--------|------------------------------------------------|
| R | 46g | 52mm Diameter |
| T | 22g | 36.0mm x 23.3mm (Rear) 36.5mm x 23.9mm (Front) |
| D | 27g | 42.2mm x 22.4mm |
| S | 57g | 45mm x 45mm |
| Q | 46g | 52mm Diameter |

NOTE: Individual packaging includes: Fitting instructions, female spades, washers, nylon thumb nuts and "u" clamp.
Bulk packaging includes : Washers, hexagonal nuts and "u" clamp (except "T" model)