



Solid state time/count totalizer... housed in a 1/8 DIN case



The DX100 is a solid state time/count totalizer. The unit is housed in a 1/8 DIN molded NORYL® case. Time/count totals are displayed by 0.5 inch high, 4 1/2 digit liquid crystal display.

- Annunciators on the front panel indicate time/count operating mode and time range
- Six time ranges from 1999.9 seconds to 19999 hours and a count range of 19999 counts
- Surface mounted using standard square base relay socket
- Fixed or plug-in panel mounting accessories available

OPERATION

Timing is referenced to the service line frequency. The line frequency is counted and internal divider networks determine one of six available time ranges.

Two count modes are available and determined by external wiring.

Mode 1: Line voltage is applied to the count input. The count is registered when the line voltage is removed from the count input (trailing edge).

Mode 2: Contact closure across the internal count circuit registers a count (leading edge).

All units have remote reset capability through external wiring.

NOTE: The cable from the totalizer to the remote reset switch must be a twisted pair with a maximum length of 5 feet.

The 02 option features a manual reset push-button on the front of the unit in addition to the remote reset capability.

The DX100 totalizer has an internal, replaceable battery. The charge on the battery is maintained at a constant level by a trickle charge circuit. A fully charged battery will maintain memory and readout for a minimum of 650 hours with power disconnected. It is recommended that the battery be replaced every two years. Initial slow response of the LCD readout indicates a low battery charge. To charge battery to full capability, apply line voltage to the unit for 48 hours.

SPECIFICATIONS

Time/Count Ranges:

Sym.	Range	Sym.	Range
00	19999 Cts.	04	19999 Min.
01	1999.9 Sec.	05	1999.9 Hr.
02	19999 Sec.	06	19999 Hr.
03	1999.9 Min.	07	Factory Programmed

Operating Voltage/Frequency:

120 VAC, 60 Hz (Can be field modified for 50 Hz operation)

Repeatability: Timing is based on service line frequency

Count Accuracy: 100%

Count Speed:

2500 per min. with voltage application: 8 MS "ON" 16 MS "OFF"
5000 per min. with switch closure: 4 MS "ON" 8 MS "OFF"

Reset Time: 10 ms

Cycle Progress: 4 1/2 digit liquid crystal display
.5 inch high (12.7 mm)

Burden: 120 VAC, 1.2 Watts
120 VDC, 1.2 Watts (counter only)

Current Required to Energize Count Line: 16.4 Microamperes

Power Interruption: Line voltage interruptions will not reset timer or counter. Battery life is a minimum of 2 years.

Operating Temperature: +32° to +140°F (0° to +60°C)

Transient Voltage Immunity: Unaffected by 50 microseconds, 600 V peak transients superimposed on the line input

Vibration: Unit function is unaffected by 2.5G sinusoidal vibration magnitude in both directions of three perpendicular mounting axes imposed from 20 to 900 Hz

Agency Approvals: UL Recognition E96337

Replacement Battery: PBB9