



**Totalizes count or elapsed time...  
convenient surface mount in relay socket or panel mount**



The DX100 is a solid state time/count totalizer. Its features include:

- Housed in 1/16 DIN molded NORYL® case
- 0.5 inch high, 4 1/2 digit liquid crystal display
- Annunciators on front panel indicate time/count operating mode and time range
- 6 time ranges from 1999.9 sec. to 19999 hrs. and count range of 19999 counts
- Surface mounted using standard square base relay socket (accessories available for fixed or plug-in panel mounting)

**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.	Time Range
00	19999 Ct.
01	1999.9 Sec.
02	19999 Sec.
03	1999.9 Min.
04	19999 Min.
05	1999.9 Hr.
06	19999 Hr.
07	Factory Programmed

**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" high (12.7 mm)

**Voltage/Frequency:** 120 VAC, 60 Hz (Can be field modified for 50 Hz operation)

**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 (field-replaceable).

**Temperature Range:** 32° to 140°F (0° to 60°C)

**Transient Voltage Immunity:** Performance unaffected by 50 microseconds, 600 V peak transients superimposed on line input.

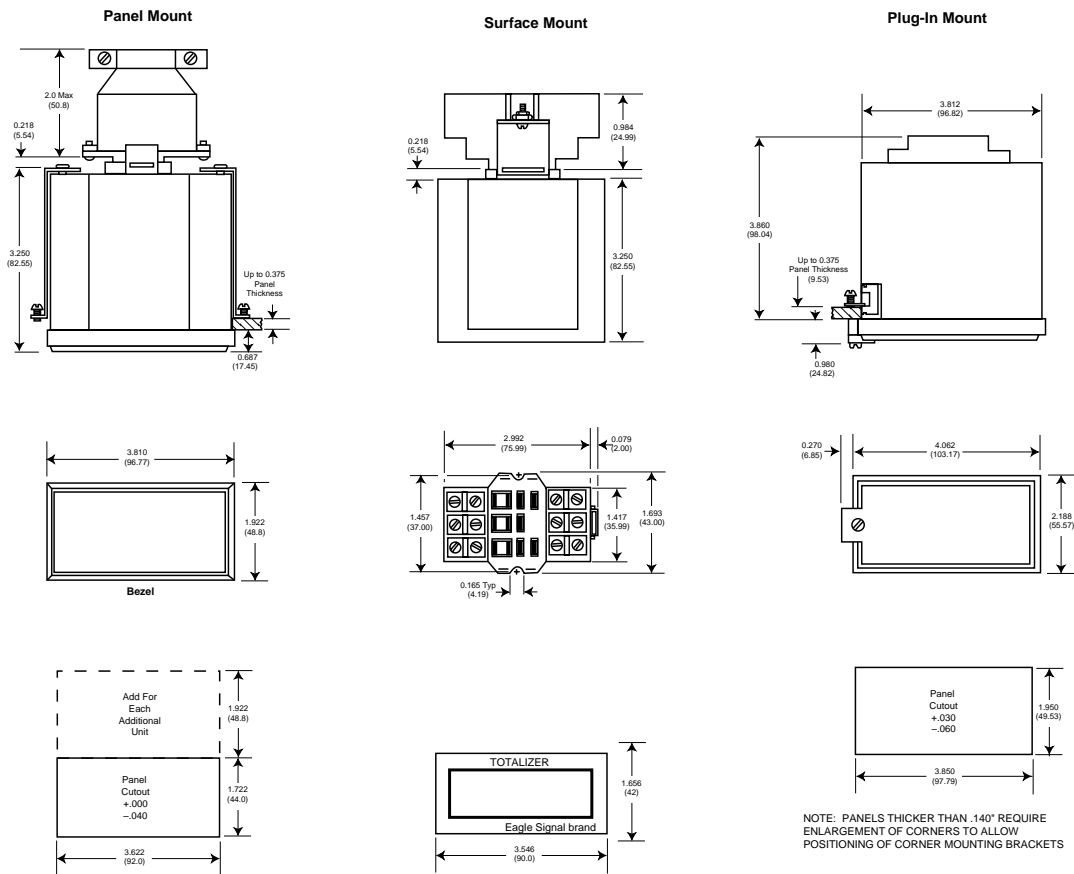
**Vibration:** Unaffected by 2.5G sinusoidal vibration magnitudes in both directions of three perpendicular mounting axes imposed from 20 to 900 Hz

**Approvals:** UL Recognition E96337

## ACCESSORIES

Model No.	Description
DZ100-51	Bezel Kit for panel mounting
DZ100-52	Strain Relief Kit
DZ100-54	Plug-In Housing for panel mounting units
DZ100-56	Latch and Latch Release Kit for surface mounting
60SR3B05	Square Base Relay Socket

## MOUNTING



## ORDERING INFORMATION

**DX1      01      A6      02**

TIME RANGE			VOLTAGE & FREQUENCY		FEATURES	
Sym.	Description	Annunciator	Sym.	Description	Sym.	Description
00	19999 Ct.	CTS	A6	120 VAC, 60 Hz*		Standard Remote Reset ONLY
01	1999.9 Sec.	SEC and Decimal			02	Reset Pushbutton on Front Panel (May be wired for Remote Reset)
02	19999 Sec.	SEC				Replacement Battery: Part No: PBB-9
03	1999.9 Min.	MIN and Decimal				
04	19999 Min.	MIN				
05	1999.9 Hr.	HR and Decimal				
06	19999 Hr.	HR				
07	19999 Ct. 1999.9 Sec. 19999 Sec.	Annunciators are not programmed. All annunciators are displayed.				

\*Unit can be modified to 50 Hz operation.