

The NATIONAL TIME DLU Series Digital Timer/Clock offers operation and features beyond those found throughout the industry. While functioning as a clock, it has all of the features found in DLU Series digital clocks. This 6-digit high efficiency display can count up or down durations of 99:59:59. NATSCO's exclusive automatic dim feature that decreases the brightness to compensate for low ambient light levels is preferred in today's high-tech surgical suites while nine brightness levels may be selected to satisfy the brightest locations. The optically isolated input allows control of the timer from other equipment for use as a code blue or other process cycle timer. Multiple timer operation modes may be selected (see below) and an integral beeper or remote output can signal the end of the countdown cycle. Local control of the timer functions is handled with the DLU-ET-CTRL series switch plates (order separately). The waterproof, IP65 sealed, heavy duty rocker switches on a stainless steel single-gang plate provide remote timer controls up to 100' away. The DLU Series Digital Clock/Timer units are powered with 24VAC/DC and are available in attractive 4" or 2.25" high visibility, wide-bar digits. Digits are epoxy filled and sealed to provide the longevity you have come to expect from National Time and Signal. Compatible with 120VAC powered systems or stand-alone using local power when the D2T-120/24 transformer is mounted at each unit. The durable steel housing, plug-in connectors and universal mounting plate simplify installation. An optional low profile surface box allows for surface mounted conduit entry. Powder grey finish standard, other colors upon request. Consult factory for 4-digit 59:59 duration version.



Timer Functions:

Timer operation type can be selected in the setup menu using the buttons on the Timer/Clock unit.

Timer Type 00 - (Default) Timer will be controlled by the remote switches. Select between timer/clock display, up/down, run/stop and reset. Count down duration can be adjusted from the remote switches. Order DLU-ET-CTRL.

Timer Type 01 - If used on a 2-wire clock system or stand-alone, a momentary reset input can be used to initiate a count down sequence. Often used for class change timer function. Remote switches not operational.

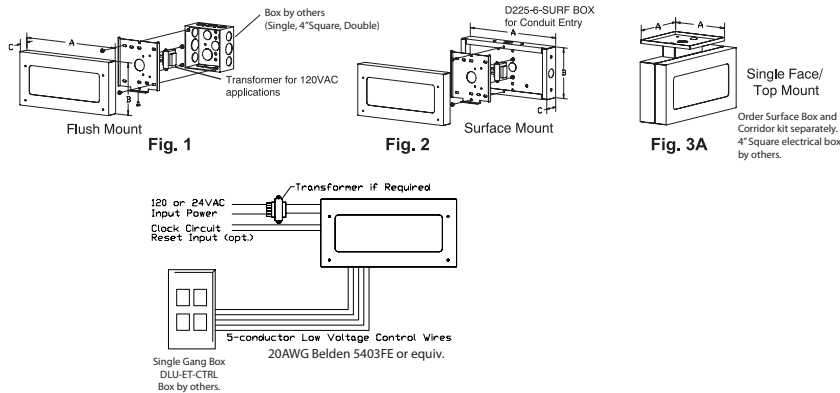
Timer Type 02 - If used on a 2-wire clock system or stand-alone, a reset input will change to the timer count up display while active. Removal of reset input will return to clock display. Often used as code blue timer integration with other equipment. Remote switches not operational.

Consult factory for custom timer input operations.

Features/Benefits:

- Specifically Designed for Today's High-Tech Surgical Suites
- Exclusive Auto-Dim Brightness Adjustment
- 9 Brightness Levels
- Clock System Compatible
- Automatic Format Detection
- 2, 3 or 4-Wire Compatibility
- 24VAC/DC or 120VAC Operation (with appropriate transformer)
- Sealed Switch Control (IP65)
- Stand-Alone Operation
- Count Up/Down Function
- Isolated Remote Input Control
- Long-Life Epoxy Sealed Display
- Durable Steel Housing
- Plug-in Power Connector

Mounting Options



Specifications

Voltage Requirements:

24VAC/DC: Clocks will function with 24VAC/DC standard.

120VAC: Reset circuit operates 24VAC/DC or 120VAC. 120VAC Run power is supported with the addition of a transformer.

D2T-120/24 - Single Face DLU225-6ET; Single Face DLU400-6ET

The transformer mounts to the back of the mounting plate and extends 1.8" into the surface box or electrical box.

Part No.	Voltage	Range	Current@ Standard Brightness*	Current range all Brightness settings	Reset Input Current
DLU225-6ET	24VAC 120VAC	9-32VAC 105-132VAC	50mA 15mA	23 - 73mA 9-20mA	1mA 9mA
DLU400-6ET	24VAC 120VAC	9-32VAC 105-132VAC	70mA 24mA	28-125mA 11-30mA	1mA 9mA

*Standard brightness is the factory setting of 4 which is typical for most installations

Clock Correction Formats Supported:

2-Wire: On Demand Correction: When used with National Time Master Clocks, clocks can correct to any time of day.

12 Hour Reset: An 'off' pulse (0.5 sec. minimum) at each 12:00 will reset all clocks. 24hr Clocks reset at 12:00am.

3-Wire: National: Hour: 25 seconds each xx:00:00; 12-Hr: 25 minutes each 6:00:00.

Other 3-Wire: Simplex, Faraday, Cincinnati, Edwards, Latham, Stromberg, American, Standard Electric; Refer to Bulletin C-427 for a growing list of supported formats.

4-Wire: National D62/D64, Faraday; 24VAC run, 24VDC reset. 12-Hour reset: 2 second pulse each 12:00.

Stand-Alone Operation: Time set using push-buttons. Battery-less backup timekeeping for at least 10 days.

Ordering Information

Part Number	Fig	Description	Mounting	Dim A	B	C	D
DLU225-6ET	1	2.25" DLU Series 6-Digit Digital Timer/Clock	4 Square, Double, Single Gang	13.13	5.06	1.13	--
DLU400-6ET	1	4" DLU Series 6-Digit Digital Timer/Clock	4 Square, Double, Single Gang	21.25	7.13	1.38	--
DLU-ET-CTRL	--	Remote Switch Controls for Digital Elapsed Timers	Single Gang Box	--	--	--	--
D225-6-SURF BOX	2	DU225-6 Surface Mount Box	4 Square, Single, Wall Surface	13.13	5.06	2.63	--
D400-6-SURF BOX	2	DU400-6 Surface Mount Box	4 Square, Single, Wall Surface	21.25	7.13	3.38	--
D225-6-CORR KIT	3	D225 Corridor Conversion Kit; Side or Top Mount*	Securely mounted 4 Square	5.00	6.30	3.75	14.40
D400-6-CORR KIT	3	D400 Corridor Conversion Kit; Side or Top Mount*	Securely mounted 4 Square	5.00	8.44	4.74	22.50
D2T-120/24	--	120/24VAC Transformer	4 Sq, Sgl/Dbf Gang, Surf. Box	--	--	--	--