

NLS SERIES DC6ST DIGITAL CLOCKS

The NLS Model DC6ST Digital Clocks were specifically designed to provide a highly reliable digital clock for integration into digital data acquisition systems. Reliability has been achieved through the use of all silicon transistor discrete logic circuitry and proven conservative design techniques. The clock has been packaged in a half-rack chassis matching in appearance to the NLS Model X-1 Digital Voltmeter. Among the features of these clocks are:

- * Pushbutton or thumbwheel preset time capability.
- * 60 cps, crystal oscillator, or external time base.
- * Decimal or BCD voltage level output signals.
- * Timing output pulses.
- * Remote reset, start and run capability.
- * A wide variety of counting arrangements
- * Lockout control to hold output constant during printing for 1 second without loss of time.
- * Power failure indicator.

SPECIFICATIONS

Standard Range = Refer to Table 1.

Other ranges available on special order.

Accuracy = 60 cps Model = As accurate as the power line.

Crystal Models = ± 1 part per million per day + 1 digit.

Timing Pulse Outputs = Repetitive timing commands are generated at the intervals preset on a front panel control. Standard intervals are 1, 2, 10, 20 seconds; 1, 2, 10, 20 minutes; 1, 2 hours, on the 23:59:59 clock. Basically on other clocks the standard intervals

TABLE I. DC-300 DC6ST OPTION TABLE

All Have Remote Control & Print Lockout

UNIT ASSY NO.			23:59:59 Hrs:Min:Sec	99999.9 Sec	99:59:59 Hrs:Min:Sec	99:23:59 Day:Hrs:Min	9999.99 Sec	P/B Set	T/W Set	60 Line Time Base	XTAL Time Base	Dec Out	BCD Out
Basic P/N	Left Hand	Right Hand											
DC-301	▲	▲	*					*		*		*	
-302			*					*		*			*
-303			*					*			*	*	
-304			*					*			*		*
-305			*						*	*		*	
-306			*						*	*			*
-307			*						*		*	*	
-308			*						*		*		*
-309				*				*		*		*	
-310				*				*		*			*
-311				*				*			*	*	
-312				*				*			*		*
-313				*					*	*		*	
-314				*					*	*			*
-315				*					*		*	*	
-316				*					*		*		*
-317					*			*		*		*	
-318					*			*		*			*
-319					*			*			*	*	
-320					*			*			*		*
-321					*				*	*		*	
-322					*				*	*			*
-323					*				*		*	*	
-324					*				*		*		*
-325						*		*		*		*	
-326						*		*		*			*
-327						*		*			*	*	
-328						*		*			*		*
-329						*			*	*		*	
-330						*			*	*			*
-331	▼	▼				*			*		*	*	
-332	-1	-2				*			*		*		*
-333							*	*			*	*	
-334							*	*			*		*
-335							*		*		*	*	
-336							*		*		*		*

would be the decade increment interval and the decade interval divided by 2.

Pulse Output Voltage Level = A positive going pulse from -15 volts to OVDC with a nominal duration of 10 milliseconds.

Decimal Voltage Level Outputs = Logic 1 = 0 volts @ 20 ma to -15V

Logic 0 = -15 volts

BCD Voltage Level Outputs = Std. Logic 1 = 0 volts @ 10 ma

0 = -15 volts @ 10K ohms

or inverted as desired.

Print Lockout Signal = Signal level held at OVDC for normal operation, and held at -6V to -27 VDC during print operation.

Printing must take place within .8 seconds.

Dimensions = 5-1/4" high x 14-1/2" deep for standard 19" panel width mounting. A dummy panel is supplied to cover the unused half of the chassis.

Weight = 25 lbs.

Power = 115/230V 60 cps line power 50 watts.

Ambient Temperature Range = 0 to 55°C.