

ORWAY CORPORATION

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MODEL 1880B DUAL READOUT SCALER

The Model 1880 is a dual NIM width module containing two identical channels of eight (8) digit BCD 100MHz scalers. Readout is provided on eight (8) in line LED readouts for each channel.

SPECIFICATIONS

CAPACITY	Eight (8) digits BCD plus overflow.
SIGNAL INPUT(each channel)	
Pulse Repetition Rate:	0 to 100mpps min(125mpps typical)
Pulse Pair Resolution:	10 ns min.
Minimum Pulse Width:	3nsec FWHM
Discriminator Level:	-500mv (internally adjustable to a min. -300mv)
Input Impedance:	50 Ω \pm 10% D.C. coupled
Input Reflections:	Less than 10% for 1ns rise time of NIM level signals.
GATE (each channel)	
Manual:	Front panel three position switch (OPEN,REMOTE,CLOSED) for controlling the counting gate. In the remote position electrical gate signals control the counting gate.
Electrical:	Two bridged LEMO connectors on front panel. Bridged inputs allow daisy chaining of gate signals from scaler to scaler.
Input Impedance:	5K min.
Sensitivity:	-500mv
Input Protection:	\pm 50 volts transients
Response Time:	Less than 10nsec.
RESET (each channel)	
Manual:	Front panel push button for reset of counter overflow and display.
Electrical:	Two bridged LEMO connectors on front panel. Bridged inputs allow daisy chaining of gate signals from scaler to scaler. The input is biased to a CAMAC logic zero (approx. 3.5v) and a ground or a current sink of 10ma will reset scaler channels to zero.

DISPLAYS (each channel)

Counter: Eight (8) inline 3/8" high character LED seven(7) segment digits.

Gate: LED light on when counter gate is open.

Overflow: LED light on when counter overflows. Turns off when counter is reset.

OUTPUTS (each channel)

Carry Output: LEMO front panel connector provides a fast NIM pulse -800mv into 50 ohms each time counter overflows. A carry pulse will not be generated at reset.

POWER REQUIREMENTS:

Less than 12 watts
+ and - 6 volts

TEMPERATURE RANGE

0 to 60°C

SIZE

Double width 8 3/4 high NIM module.