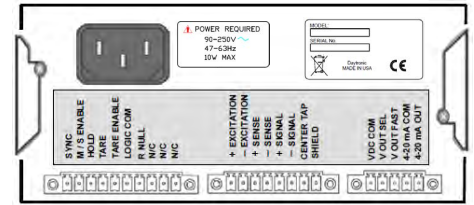


3700 Family of Digital Readouts with real time-amplified Analog Output



The **3700 is a single-channel panel instrument** for sensor conditioning, with adjustable engineering unit's display and true amplified analog output. The 3700 series is based on the popular Daytronic 3000 meters. Its focus is to provide a stable, user configured, display, as well as a noise free amplified analog signal for the measurement of force, load, displacement and other parameters associated with low level sensor signals. The display is user configured for engineering unit scaling up to +/- 199950 "independently of the analog signal", maximizing the capability of the analog signal output level. The 3700 also has an added feature of a true analog "TARE" button for quick zero offset alignment.

3700 Specifications:

Housing	Aluminum extruded metal case
Dimensions - Weight	HWD: 72.1 mm (2.84 in) x 144.3 mm (5.68 in) x 179.3 mm (7.06 in); weight 1.47 kg (3.25 Lbs)
Power Requirements	90-250 VAC, 47-63 Hz @ 10W max - IEC power receptacle, no power switch
Input Types and Ranges	3730 - AC LVDT's (4,5, and 6-wire): 16 to 1600 mV/V; 2.5, 5.0 or 7.5 KHz @ 2.77 VRMS 3740 - Frequency to Voltage: 250 Hz to 124 KHz, 50 mV to 250 V sensitivity 3741 - Horsepower - Input frequency for Speed and 0 - 5/10 Vdc for Torque 3760 - DC Voltage / Current: 50 mV to 200 Vdc, 4-20 / 4-12-20 mA 3770 - DC Strain Gage (4 or 6 wire): 0.5 to 10.0 mV/V; 5 or 10 Vdc Excitation 3778 - AC Strain Gage (4,5 or 6 wire): 0.5 to 5.0 mV/V; 3.28 or 5.0 KHz @ 2.77 VRMS
Analog Filters	Selectable, Three Pole - Modified Butterworth - Low Pass, rolloff frequency varies with model
Input Overvoltage	Up to 240 VAC rms on all signal and excitation lines
ESD Protection	Up to 4 kV on all connectors
Accuracy	Offset and Gain Stability ±30 ppm/Deg C; vs. time ±10ppm/month Gain Accuracy is limited to calibration source, 3700 is ±0.02% of input range
Operating Temperature Range	0° to 55° C (32° to 131° F)
Analog Outputs	Selectable ± 5 or ±10 VDC with linearity maintained for 20% overrange, 4-20 mA (4-12-20)
Display	+/- 199950. Count by 1,2 or 5 pending display range, w/dummy zero. Independently adjustable
Indicator LED	Tare - Active green, Tracking - yellow, Out of Range of Tare - red
Interface Connector	Removable screw terminals; 12 to 26 AWG

Models Available (3700 Family)

Model	Description	Features
3730	AC LVDT	16 to 1600 mv/V, remote sense, auto / manual phase, wide zero, null
3740	FREQUENCY	250 Hz to 124 KHz, low level signal sensitivity, front panel calibration
3741	HORSEPOWER	250 Hz to 124 KHz - Speed; 0 - 5/10 Vdc for Torque
3760	DC Voltage - mA Current	50 mV to 200 Vdc / 4-20 mA
3770	DC Strain Gage	0.5 to 10.0 mv/V, remote sense, wide zero, symmetry, shunt calibration
3778	AC Strain Gage	0.5 to 5.0 mv/V, remote sense, phase, wide zero, symmetry, shunt calibration
"P" Option	Peak Capture Option	Analog Capture: + Peak, - Peak, Max-Min, TIR selectable capture mode