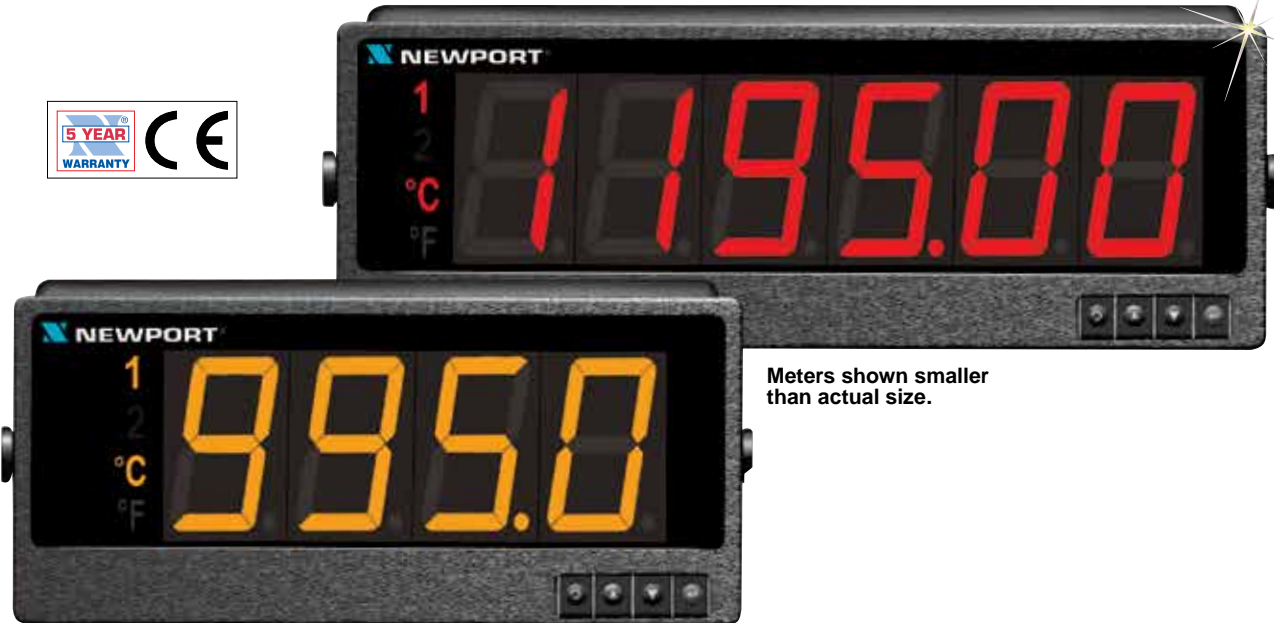


BIG Display

Meters and Signal Conditioners

57 and 101 mm (2.25 and 4")
Displays Available!



Meters shown smaller than actual size.

- ✓ **BIG Bright LEDs 4 or 6-Digits**
- ✓ **Program to Change Colors:**
RED, AMBER, GREEN
- ✓ **AC Current Input**
- ✓ **AC Voltage Input**
- ✓ **Frequency/Pulse/Rate/ Totalizer Input**

The "AC BIG Displays" (iLD-ACC and iLD-ACV) provide accurate isolated measurement of AC Voltage and Current signals. The AC Voltage model can be scaled for ranges from 0 to 400 mVac through 0 to 400 Vac. The AC Current model covers ranges from 0 to 10 mA through 0 to 5 Amps AC.

The "Frequency Pulse BIG Display" (iLD-FP) provides accurate isolated measurement of frequency (from 200 Hz to 50 KHz) and pulse signals (up to 200 M pulses full scale) that can be scaled to any engineering units.

Programmable Color Display

The iLD-ACC, iLD-ACV, and iLD-FP feature BIG bright 7-segment LED's that can be programmed to change colors between **RED, AMBER, and GREEN** to indicate visual alarms.

The BIG Display can be mounted flush in a panel or surface mounted with the included brackets. The entire BIG Display enclosure provides NEMA 4 (IP65) protection. Whether panel-mounted or surface-mounted, the BIG Display does not need to go inside a bulky and expensive NEMA enclosure.

Configuration of the iLD-ACC, -ACV, or -FP will be performed using RS-485 communication standard at half duplex and the configuration software that is available on our website.

With the Ethernet (-EI) option you can "see" your meter and control your process through a web browser over the Internet from halfway around the world.

With the Isolated Analog Output (-C2A) option, user can select output range for 0 to 10V, 4 to 20 mA, or 0 to 20 mA using serial RS-232 and the configuration software (this eliminates the RS-485 communication available on the standard model). Factory Scaling (FS) is available if you prefer the unit to be fully configured before shipment.

Specifications

AC Current Input (Model ACC)

Input Ranges: 10 mA, 100 mA, 1 A, 5 A AC current dedicated input terminals for (10, 100 mA same input), 1 A and 5 A; return terminal common to all ranges

Frequency Range: 30 Hz to 1 KHz

Input Impedance: 3.3 Ω for 10, 100 mA input; 0.2 Ω for 1 A input; 0.04 Ω for 5 A input

Isolation: Dielectric strength to 1000 Vrms transient per 1 min test based on EN 61010 for 50 Vdc or Vrms working voltage

3-Way Isolation: Power to input; power to analog output/communication; input to analog output/communication

Input Over-Current Protection: 10% above full scale continuously; 100% above full scale for 10 sec

A to D Technique: Dual slope

Read Rate: 3 readings/sec.

Accuracy At 25°C: $\pm 0.2\%$ of FS; 30 Hz to 1 KHz

Temperature Stability: 10, 100 mA range 100 ppm/°C typical; 1 A range 150 ppm/°C typical; 5 A range 200 ppm/°C typical

Step Response: 2 sec to 99% of the final value (filter time constant = 64)

AC Voltage Input (Model ACV)

Input Ranges: 400 mV, 4 V, 40 V, 400 V

Frequency Range: 30 Hz to 1 KHz

Input Impedance: 2.1 Meg for all ranges

Isolation: Dielectric strength to 1000 Vrms transient per 1 min test based on EN61010 for 50 Vdc or Vrms working voltage

Input Over-Voltage Protection: 10% above full scale continuously; 100% above full scale for 10 sec

A to D Technique: Dual slope

Read Rate: 3 readings/sec

Accuracy at 25°C: 400 mV, 4 V, 40 V and 400 V ranges; 49 to 500 Hz $\pm 0.2\%$ of FS; 30 Hz to 1KHz $\pm 0.2\%$ of FS ± 10 counts

Temperature Stability: 400 mV and 40 V range, 150 ppm/°C typical; 4 V and 400 V range, 100 ppm/°C typical

Step Response: 2 sec to 99% of the final value (filter time constant = 64)

Frequency Pulse Input (Model FP)

Input Types [Min Low-Level Signal Input (Magnetic Pickups) From 0 mV to 120 mV:

- Open Collector NPN
- Open Collector PNP
- TTL/CMOS Input
- NAMUR Sensors: 8.2 V Excitation

Operating Modes

Frequency: Range = 0.2 Hz to 50 KHz

Frequency	Resolution
0 to 9.99999 Hz	0.00001 Hz
10 to 99.9999 Hz	0.0001 Hz
100 to 999.999 Hz	0.001 Hz
1000 to 9999.99 Hz	0.01 Hz
10000 to 50000.0 Hz	0.1 Hz
0 to 50000 Hz	1 Hz

Totalize with Reset: Range = 0 to 999999

A-B Totalize (Reset input used as a +A Input): Range = -99999 to 999999 (Resolution is 1 count)

Input Impedance:

Input: 1 M Ω to +EXC;

Reset: 100 K to 5 V

Isolation: Dielectric strength to 1000 Vrms transient per 1 min test based on EN61010 for 50 Vdc or Vrms working voltage

Input Over-Voltage Protection:

With 1 K Pull Down: 14 V

With 3K Pull Up: 20 V

Without Pull Up/Down: 60 V

Excitation: 5, 8.2 or 12.5 V at 25 mA, programmable

Accuracy At 25°C: $\pm 0.1\%$ of FS

Crystal Time-based Accuracy: ± 50 ppm

Temperature Stability: ± 50 ppm/°C typical; time base stability: ± 1 ppm/°C

Step Response for RS-485 Output: 0.1 sec to 99% of the final value (filter time constant = 0, gate time = 0.05 sec)

Communication Options

Ethernet: Standards compliance IEEE 802.3 10Base-T

Supported Protocols: TCP/IP, ARP, HTTPGET

RS-232: Selectable from menu; ASCII protocol selectable from menu; programmable 300 to 19.2 K baud; complete programmable setup capability; program to transmit current display, alarm status, minimum/maximum, actual measured input value and status

Connection: Screw terminals

Alarm 1 and 2 (Programmable)

Operation: High/low, above/below, band, latch/unlatch; front panel configurations

Isolation

Power to Input/Output: 2300 Vac per 1 min test (RS-232 input or output)

Between Inputs: 500 Vac per 1 min test

General

Power: 100 to 240 Vac $\pm 10\%$, 50/60 Hz, 22.5 W

Environmental Conditions: 0 to 40°C (32 to 104°F), 90% RH non-condensing

Warm-Up to Rated Accuracy: 60 minutes

Protection: NEMA 4 (IP65) front bezel

Dimensions

iLD24: 289 L x 137 W x 73 mm D (11.75 x 5.375 x 2.875")

iLD26: 394 L x 137 W x 73 mm D (15.50 x 5.375 x 2.875")

iLD44: 480 L x 211 W x 95 mm D (18.11 x 8.31 x 3.76")

iLD46: 642 L x 211 W x 95 mm D (25.26 x 8.31 x 3.76")

Factory Scaling (**,FS**) is available if you prefer the unit to be fully configured before shipment.

Please provide your selections for Factory Scaling settings:

iLD-ACC,FS	iLD-ACV,FS
Input Range: 10 mA, 100 mA, 1 A, 5 A	Input Range: 400 mVac, 40 Vac, 400 Vac
Select your Input Range and Display Range Factory Scaling Example: 0 to 5 A = 0 to 50.00	Select your Input Range and Display Range Factory Scaling Example: 0 to 400 Vac = 0 to 6000

iLD-FP,FS	Pick from each selection
Mode: Frequency, A-B, Totalize	Excitation: 12.5 V, 5 V, 8 V
Pull up/down: None, 3 K pull-up, 1 K pull-down	Gate Time: in milliseconds
Debounce Time: in milliseconds	Debounce Contact: Yes/No
Low Level Input: Yes/No	Frequency Range: 0.2 Hz to 50 KHz
For Frequency Mode select your Input Range and Display Range Factory Scaling Example for Frequency Mode: 0 to 1 KHz = 0 to 5000	
For Totalize and A-B Mode select your Input Range and Display Range Factory Scaling Example for Total / A-B Mode: 0 to 100 pulses = 0 to 2000 display counts	

To Order Visit newportUS.com/ild-acc for Pricing and Details

Basic Model	Description
Frequency/Pulse/Rate/Total Input	
iLD24-FP	57 mm (2.25") 4-digit display with frequency/pulse totalize input
iLD26-FP	57 mm (2.25") 6-digit display with frequency/pulse totalize input
iLD44-FP	101 mm (4") 4-digit display with frequency/pulse totalize input
iLD46-FP	101 mm (4") 6-digit display with frequency/pulse totalize input
AC Current and Voltage Input	
iLD24-ACC	57 mm (2.25") 4-digit display with AC current input
iLD44-ACC	101 mm (4") 4-digit display with AC current input
iLD24-ACV	57 mm (2.25") 4-digit display with AC voltage input
iLD44-ACV	101 mm (4") 4-digit display with AC voltage input
Communication Options	
-EI	Ethernet with embedded Web server output
-C2A	RS-232 and isolated Analog output
,FS	Factory scaling (no charge, see factory scaling table above for required information)

Ordering Example: iLD24-ACC-C2A, large 57.2 mm (2.25") 4-digit display with AC current input and isolated Analog output.