

BIG Display



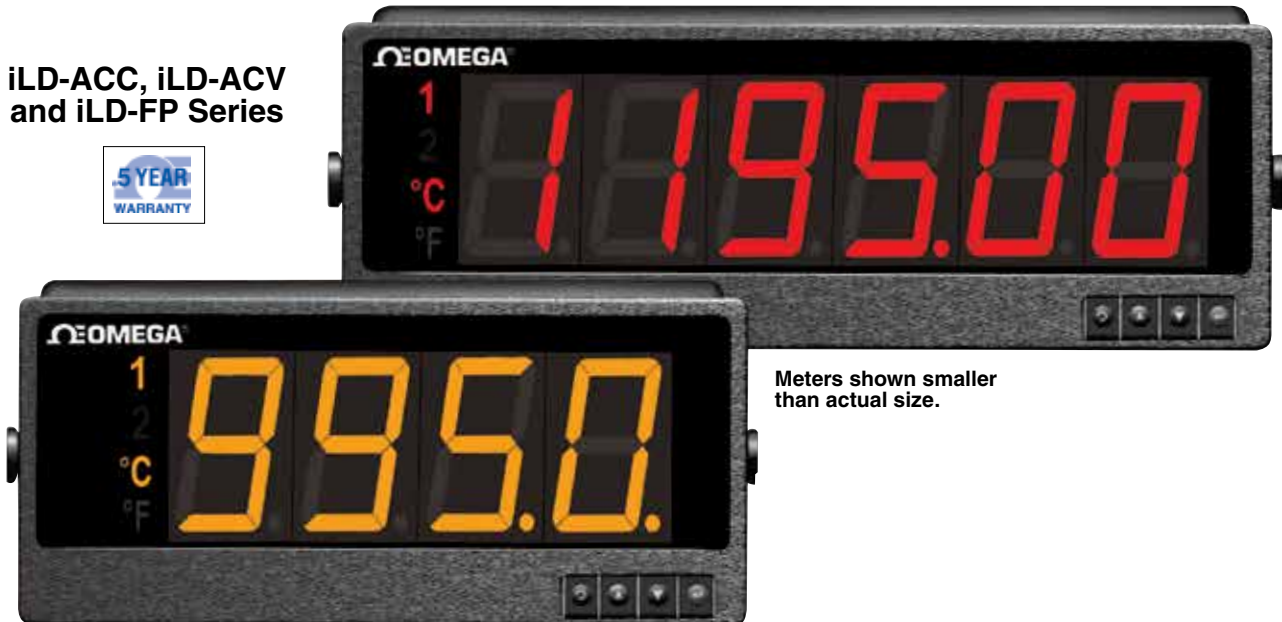
Meters and Signal Conditioners

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

Product Discontinued

as of 2/1/2018

iLD-ACC, iLD-ACV
and iLD-FP Series



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**
- ✓ **RoHS 2 Compliant**

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 RS485 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 RS232 and the configuration software (this eliminates the RS485 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 RS485 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

RS232: 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 (RS232 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

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	RS232 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.