

# Easy-Reader

# Economy Large Displays

Save time and money with this range of low cost general purpose large displays. Their simple yet rugged design gives long term reliability and smart appearance. Calibration and commissioning is made easy with the unique INTUITIVE menu-free programming system.

## 11 reasons to choose the EasyReader...

- Smart styling
- Clear, bright display
- Broad range of models
- Low maintenance costs
- Lowest cost large display
- Fast, free technical support
- High immunity to interference
- Easy to use, menu-free setup
- Lockout system to save your settings
- Can be configured from the front panel
- Long warranty, extendable free of charge

## 10 Display Functions

- Total
- Rate / Speed / Frequency
- Process
- Weight (with amplifier or weigh-head)
- Slave display from RS232, RS485 etc.
- Time of Day / Elapsed Time
- Temperature
- Humidity (with external converter)
- Power (with external converter)
- Pressure

## 5 Input Signal types

- 4-20mA, 0-10V, 1-5V etc
- Pulses PNP, NPN, Contact etc
- Serial Data RS232, 485, 422 etc.
- BCD data, via model PSC1
- Thermocouple/PT100 Sensors

## 2 digit sizes

- 57 mm for up to 25 metres viewing
- 102mm for up to 50 metres viewing

A look inside the rear case of the 57mm version. Here you can see the neat and simple layout.

Cables enter the enclosure through 3 glands at the bottom of the case. Detachable screw terminals make installation easy and fast. A back-plate seals the enclosure after you have finished your wiring.

More technical information for this product is at  
[www.london-electronics.com](http://www.london-electronics.com)



A simple and affordable way to easily see and share important measurements over distances up to 50 metres.

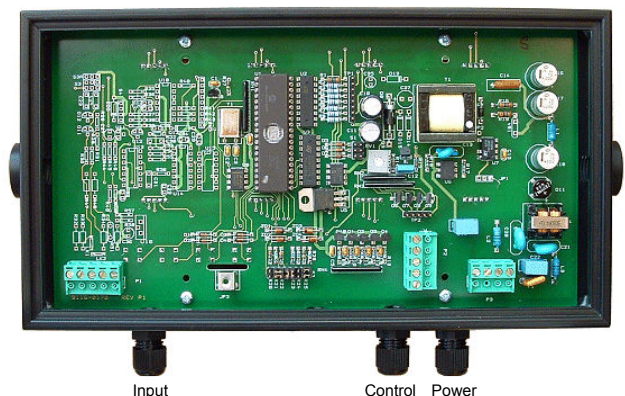
Help your workforce to keep in touch with what is happening. Measurements can be seen up to 50 metres away. Ideal for displaying your important plant variables such as:-

- \* Production rate - are we working fast enough?
- \* Production total and target - have we made enough?
- \* Temperature and humidity in controlled environments
- \* Crane lifting weight - are we within safe limits?
- \* What time is it? Synchronised factory clocks.
- \* Weighbridge load - the driver can stay in his cab.
- \* Any physical variable important to your process

All the signal conditioning, power supply and display circuitry is included in the enclosure, so installation is simple and tidy.

Just apply power and connect your input signal to get precise display of your process variables.

You can wall-mount or suspend these displays. Tell us how you want to mount your display when you order, and we'll supply the mounting brackets free of charge.



	57mm digit height gives <b>25 metres viewing max.</b>	102mm digit height gives <b>50 metres viewing max.</b>
<b>Model numbers:</b>		
Process input	<b>ER2P</b>	<b>ER4P</b>
Rate / Total	<b>ER2C</b>	<b>ER4C</b>
Serial data input	<b>ER2S</b>	<b>ER4S</b>
Temperature	<b>ER2T</b>	<b>ER4T</b>
Clock Slave *	<b>ER2H</b>	<b>ER4H</b>
<b>Mechanical:</b>		
Case size	260mmW x 140mmH	415mmW* x 195mmH
Depth front-back	75 mm	75 mm
Weight	2kg	3kg *425mm for ER4H
Flush panel mounting versions have a 9mm bezel lip all around the case. Panel Cutout size = Case size + 1mm. Glands exit from the rear.		

### Input Signals:

#### Models ER2P, ER2T and ER4P, ER4T - process displays

Ranges	4-20mA, 0-10V and 1-5V DC as standard, fully scalable. (PT100 / TC for ER2T and ER4T)
Scaling method	INTUITIVE menu-free digital scaling. Settings stored in non volatile memory.
Input resistance	33 Ohms for current inputs, 1 Megohm for voltage inputs. (not on ER2T or ER4T)
Excitation	24VDC nominal, at up to 30mA (not on ER2T or ER4T)
Accuracy	+/- 0.1% of range +/-1 count at 25C. Tempco +/-100ppm/C zero and span.
Read-rate	3 per second nominal
Filtering	Signal averaging period adjustable from 0 to 5 seconds
Count-by	Can be set to count by 1,2,5,10,20 or 50
Features	Tare, Peak, Valley and reset from front panel or with remote contact closures

#### Models ER2C and ER4C - scalable counters and ratemeters

Signal types	NPN, PNP or contact closure, from proximity sensors, switches, relays etc.
Functions	Counting and pulse rate, elapsed time, quadrature fully scalable.
Scaling method	INTUITIVE menu-free digital scaling. Settings stored in non volatile memory.
Excitation	24VDC nominal, at up to 50mA
Accuracy(rate)	+/- 0.05% of range +/-1 count at 25C. Tempco +/-50ppm/C zero and span.
Read-rate	3 per second nominal
Filtering(rate)	Signal averaging period adjustable from 0 to 5 seconds
Features	Peak, Valley and reset from front panel or with remote contact closures

#### Models ER2S,ER4S,ER2S,ER4S - addressable serial data input remote displays

Signal types	ASCII data from 300 to 9600 baud. RS232, RS485, RS422 and TTY types.
Addressing	From 00 to FF
Protocol	Adjustable to suit a wide range of data sources.
Read-rate	Display updates with each incoming data string.
Features	Tare, Peak, Valley and reset from front panel or with remote contact closures

### Materials:

Case	uPVC welded extrusion case, Anti-reflective tinted acrylic window, steel fittings.
------	--

### Environment:

Working temperature	-10 to 50 degrees C
Storage temperature	-20 to +70 degrees C, 0 to 95 %rh non condensing
Sealing	IP54 dust tight standard, IP65 optional
Atmosphere	Non-flammable, non explosive

### Ordering code:

Type & Size		Mounting	Power	Brightness
Process display	57 mm <b>ER2P</b>	<b>-1 Flush Panel</b> <b>-2 Wall</b> <b>-3 Suspension</b> <b>-6 Top-of-cabinet</b>	<b>-0 95-265VAC</b> <b>-DC 11-30V DC</b>	<b>-0 Normal</b> <b>-DLV Ultrabright</b>
Process display	102mm <b>ER4P</b>			
Counter/ratometer	57 mm <b>ER2C</b>			
Counter/ratometer	102mm <b>ER4C</b>			
Serial ASCII slave	57 mm <b>ER2S</b>			
Serial ASCII slave	102mm <b>ER4S</b>			
TC/PT100 display	57 mm <b>ER2T</b>			
TC/PT100 display	102mm <b>ER4T</b>			
HH:MM Clock *	57 mm <b>ER2H</b>			
HH:MM Clock *	102mm <b>ER4H</b>			

**IP65 Option.** Please add suffix **IP65** if you need sealing to IP65

For example model **ER4P-2-DC-0** is a wall mount 102mm process display, DC power, normal brightness.

\* Time data provided by our precision time reference module such as ASR-GPS.