



## Large Digit Displays: Serial Input

**These Large Digital Serial Input Displays will accept ASCII or MODBUS protocols for transmitting data via RS-232, RS-422, RS-485 and are easy to configure and scale to virtually any engineering units with a PC.**

Because these Large Digit Serial Displays are addressable, they can be interfaced with many host devices including PC's, PLC's, Counters, Weighing Scales, Temperature Controllers, Master Clocks, Panel Meters etc., that have a serial port. In multi-drop applications, several options for interfacing and addressing further enhance the flexibility of these serial displays. An optional output relay can also be provided to activate other control devices.

### **Ethernet Connection ( Networking ) ( LAN )**

These Large Digit Serial Displays have an Ethernet connection option which allows the displays to be added to an existing ' network ' and communicate by standard TCP/IP protocol. Each display can be given an individual IP address and can then be accessed from anywhere in the network.

The Ethernet connection includes RS-422 and RS-485 serial communications and communicates with a straight forward ASCII or MODBUS protocol.

### **Serial Data Options**

- RS-232 – for use when a single display is located less than 50 feet ( 15 mtrs ) from the controlling display
- RS-422 / RS-485 – for use over distances greater than 50 feet( 15 mtrs ) from the controlling display or when there is a need for multi-drop displays i.e. more than one display from the same controlling device.
- Ethernet (LAN) – with this option, the displays as ' nodes ' on a LAN ( Local Area Network ) system and receive information via ' Ethernet ' where each display has its own IP address.

### **Large Digit Serial Input Displays - Standard Features**

- Digit sizes from 2.3" (58mm) to 18" (457mm)
- 4, 6, 8, 12 digits available ( 4 and 6 standard )
- Software positioning of decimal point
- Field selectable BAUD rates
- Indoor or Outdoor enclosures

### **Power Supply Options**

- 100-260Vac, 24Vac, 12Vdc, 24Vdc

### **Alarm Options**

- HI or LO relay 3A SPCO

### **Ambient Operating Environment**

- 0~50 C / 32~122 F
- 5~95% Humidity

### **Large Digit Serial Displays - Enclosures and Mounting**

Indoor enclosures are extruded Aluminium and black powder coat painted and are IP54 protected. Outdoor enclosures are Stainless Steel and protected to IP65.

The Indoor cases can be Panel Mounted ( 2.3" and 4.0" size digits ) or all digit sizes can be Wall / Suspension mounted.

Outdoor cases are for Wall / Suspension mounting only





## General Options for Large Digit Displays

Within each category of our Large Digital Display the following options are available.

### Digit Colours



**Red:** Most commonly used for indoor or outdoor applications in 7 segments or Dot Matrix

**Green:** Better for indoor use with 7 segment, indoor and outdoor for Dot Matrix

**Orange:** High visibility for outdoor use.

*Please note not all the above colours are available on all digits, please consult our sales office for availability*

### Digit Heights

#### 7 Segment displays

2.3" (58mm), 4" (102mm), 6" (152mm), 8" (203mm),  
12" (305mm), 14" (356mm), 16" (406mm), 18" (457mm)



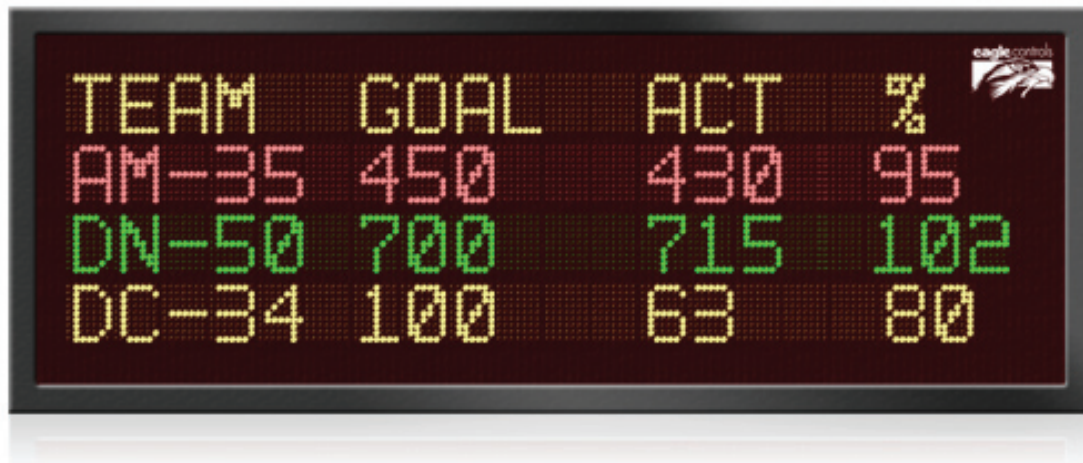
#### Dot Matrix displays

EC500N-7 1 line 2.1" (53.34mm)

EC500N-16 1-2 lines 2.1" - 4.8" (53.34mm - 121.92mm)

EC500N-32 1-4 lines 2.1" - 9.6" (53.34mm - 243.84mm)

EC500N-64 1-8 lines 2.1" - 19.2" (53.34mm - 487.68mm)



*The height of the characters for Dot Matrix displays depends on the number of lines required. Please consult our sales office with your specific requirements.*



## Case Dimensions for Large Digit Displays

### For 2.3" (58mm), 4.0" (102mm), 6.0" (152mm) High Digit Displays

#### Wall Mounting 2.3" (58mm)

No. of Digits	Dimensions H x L x D (mm)
2 Digits	100 x 188 x 61
3 Digits	100 x 188 x 61
4 Digits	100 x 241 x 61
5 Digits	100 x 294 x 61
6 Digits	100 x 347 x 61
7 Digits	100 x 400 x 61
8 Digits	100 x 453 x 61

Note ( 1 ) : Panel Mounting Cases ( for 2.3", 4.0" cases only)

For Panel Mounting cases for each of the above number of digits, add 10mm to the dimensions H and L. Example – the 2/3 digit size case will have a Panel Facia dimensions of H110 x L198mm

Note ( 2 ) : Panel Cut-Outs ( for 2.3", 4.0" cases only )

For the panel cut-out of the Panel Mounting cases, add 3-4 mm to the dimensions H and L of the appropriate Wall Mounting case. Example – the 2/3 digit size case would have a Panel Cut-Out of H103 x L191mm

#### Wall Mounting 4.0" (102mm)

No. of Digits	Dimensions H x L x D (mm)
2 Digits	155 x 216 x 61
3 Digits	155 x 308 x 61
4 Digits	155 x 400 x 61
5 Digits	155 x 492 x 61
6 Digits	155 x 584 x 61
7 Digits	155 x 676 x 61
8 Digits	155 x 768 x 61

Notes ( 1 ) and ( 2 ) above, apply

#### Wall Mounting 6.0" (152mm)

No. of Digits	Dimensions H x L x D (mm)
2 Digits	330 x 410 x 95
3 Digits	330 x 600 x 95
4 Digits	330 x 760 x 95
6 Digits	330 x 950 x 95

For more than 6 digits please consult Sales Office

Notes ( 1 ) and ( 2 ) DO NOT APPLY. Panel Mount cases are not available for 6" and above

### Legends

We are able to fit ' legends ' to the filter windows of any size digit display. The ' L ' dimensions given above do not take into account the extra length of the case to fit the legend, which will depend on the number of characters required in the legend. This can be a complete word or abbreviations.

### Other Digit Heights

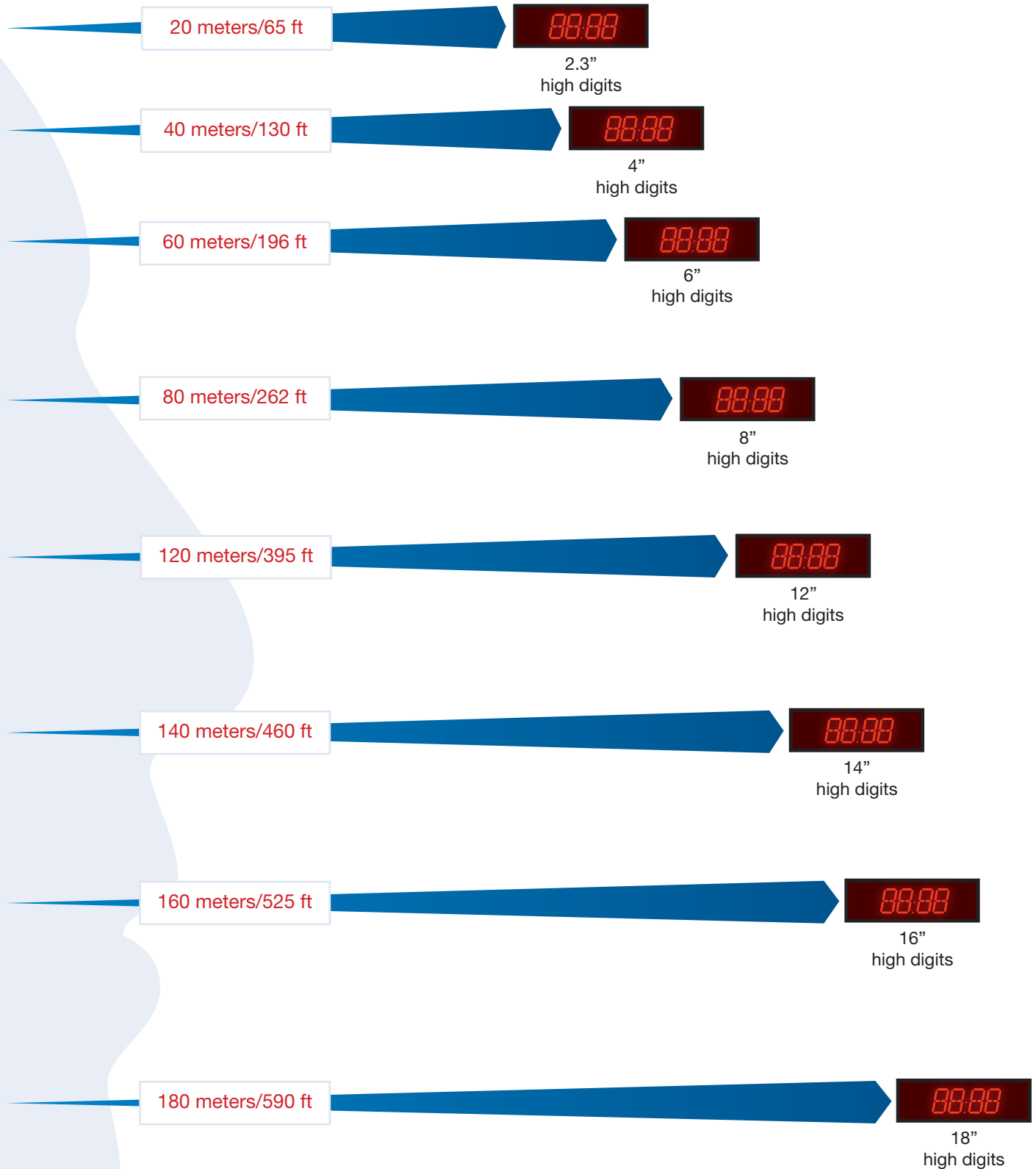
For all other sizes of digits, 7", 8", 12", 14", 16", 18" please consult our Sales Office for the case dimensions.

**Sales Office Tel 01462-670566**





## Large Digit Displays viewing distances





## Mounting Options for Large Digit Displays

### Suspension Mounting

This method allows the Large Digit Displays to be suspended from a gantry or overhead beam, via heavy duty chains (not supplied). Two Steel 'Eye Bolts' are fitted on the top side of the case with an eye diameter of 25 mm / 0.98". This method of mounting is particularly useful for large digit sizes of 7", 8", 12", 14", 16" and 18" and multi line displays, where the overall enclosure size becomes very large and heavy. However, if overhead suspension is not possible extra strong side rotating brackets are available for wall / surface mounting. Wiring is made to terminal blocks fitted to the rear, top or sides of the case, depending on the complexity of the display (consult sales office).



### Wall Mounting with Rotating Brackets (Rotating) (Single Displays)

Two 'L' shaped brackets (supplied), fit either side of the case and are screwed up tight to the case with two 'star nuts' (supplied). The brackets have small studs around the case fixing point which lock into reciprocating holes in the side of the case. This allows the case to be rotated up to 180 degrees to ensure the display can be clearly seen at ground level. The 'L' brackets are then fixed to the wall with standard M6 screws (not supplied). Wiring is usually made to a rear terminal block.



### Panel Mounting (Single Displays)

2.3" (58mm) and 4.0" (102mm) high digit cases are the only sizes available for this method of mounting. The case is supplied with an integral flange and two rear panel clamps are supplied to pull the case and flange tight to the outer face of the control panel. All wiring connections are made to rear terminal blocks on the case.



### Ceiling Mounting for Work Stations / Multiside Viewing

This method of mounting is ideal for mounting the display from a ceiling directly over a work area or when using for example, a Clock Display with 2, 3 or 4 sides in a general public area such as Airport Lounges, Supermarkets, Train Stations etc. A pole comes down from the ceiling and is connected to side brackets with the display mounted in between the side brackets. The pole and brackets allow the display to be tilted or rotated. Please consult our sales office for pricing of this mounting method hardware.

