



Large Digit Displays: Temperature

Large Digit Temperature

Temperature Measuring Displays Data-Max Seven Segment LED Bar Displays

Thermocouple Inputs J, K, R, S and PT100 (RTD) 2/3 Wire (DIN)

This series of Large Digit Temperature Measuring Displays will accept Thermocouple and PT100 (RTD) inputs to display Temperature from a remote process. The Temperature Displays are available in digit sizes from 2.3" (58mm) up to 18" (457mm) which determines the viewing distance required.

Standard digit colour is Red but Green is also available and the Temperature displays also offer various output options (see below) Standard Indoor Temperature displays are IP54 protected and Outdoor displays are protected to IP65.

Large Digit Temperature Displays – Options

- Inputs Thermocouple J, K, R, S or PT100 (RTD) 2/3 wire
- Decimal point for low scale ranges
- Degrees C or F scale ranges
- Wall or Panel Mounting options
- Digit heights 2.3"(58mm), 4"(102mm), 6"(152mm), 8"(203mm), 12"(305mm), 14"(355mm), 16"(405mm), 18"(457mm)
- Viewing distances from 65ft(20meters) to 600ft(180meters) depending on digit heights above.

Power Supply Options

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

Alarm Output Options

- HI or LO trip via 3A SPCO relay

Serial Output Options

- RS-232, RS-422, RS-485, MODBUS, ASCII protocol

Accuracy

- Thermocouple +/- 0.1%,
- PT100 (RTD) +/- 0.2%

Scale Ranges

Thermocouple

- J: 0-750 C / 32-1382 F
- K: 0-1200 C / 32-2192 F
- R: 0-1600 C / 32-2912 F
- S: 0-1750 C / 32-3182 F

PT100 / RTD

- 2/3 wire -200~400 C / -328~572 F, 0~99.9 C / 32~212 F

Re-Transmission Output Option

- 0-20mA, 4-20mA, 1-5Vdc, 0-10Vdc





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)



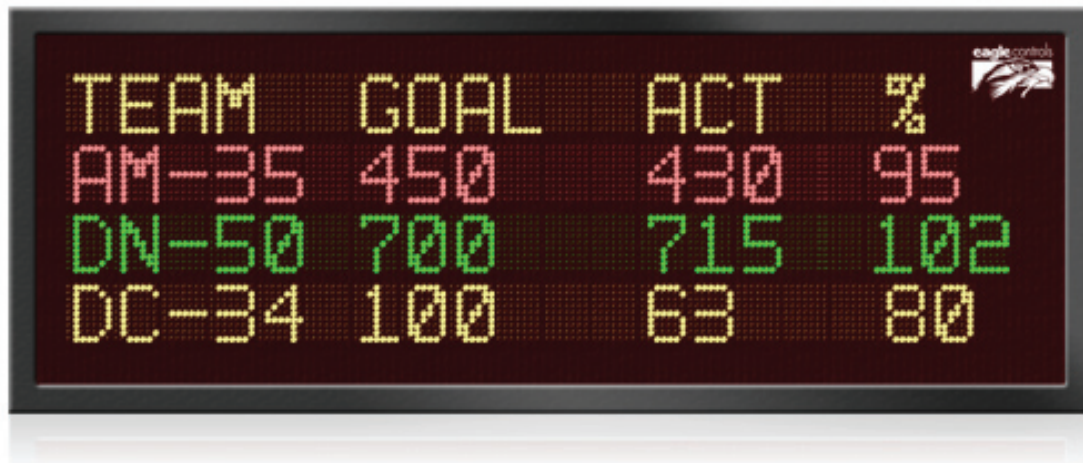
Dot Matrix displays

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

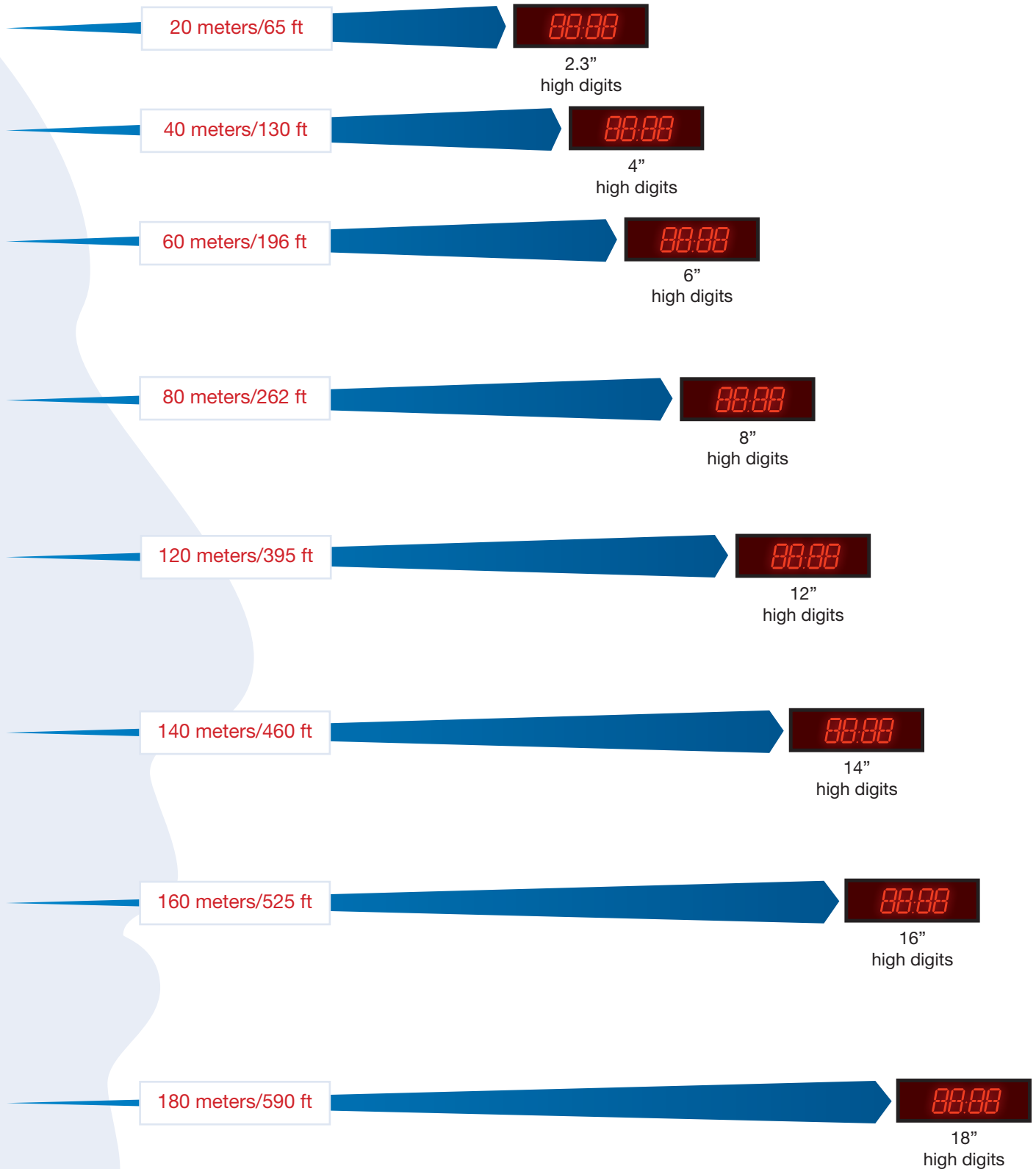
For all other sizes of digits, 7", 8", 12", 14", 16", 18" please consult our Sales Office for the case dimensions.

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.

