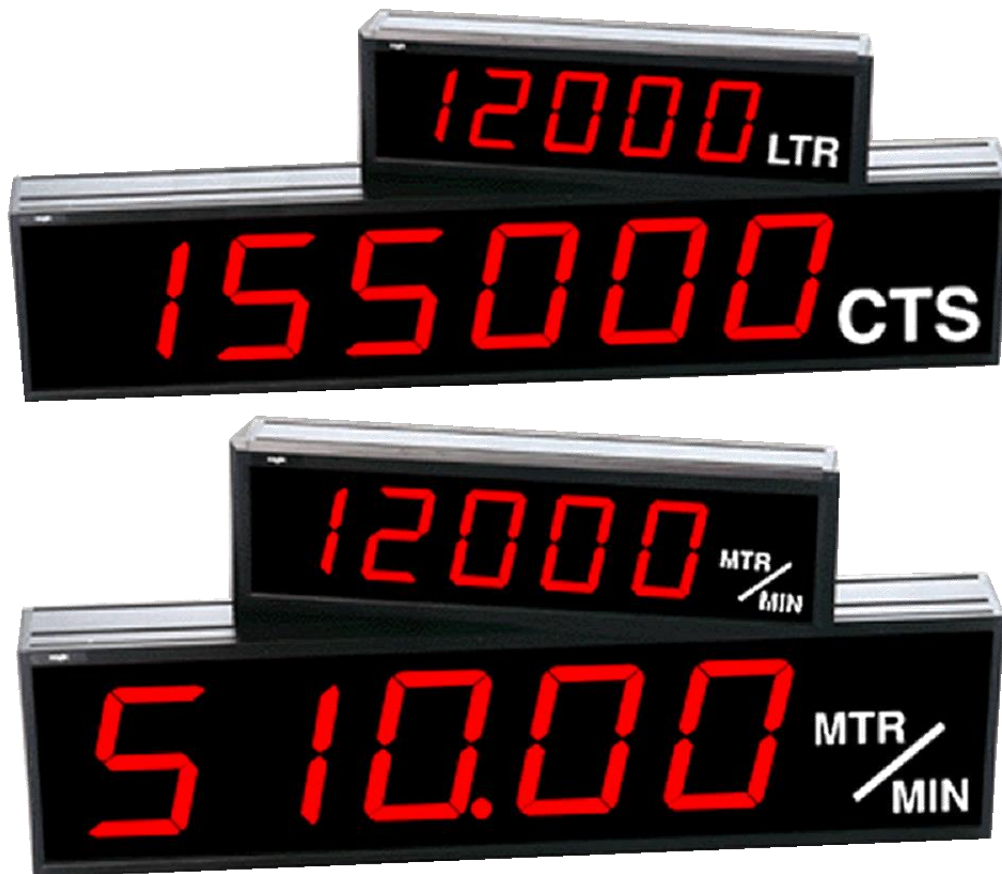


LARGE DIGITAL LED COUNTERS & RATE DISPLAYS

WIDE VARIETY OF INDUSTRIAL INPUT SIGNALS

Contact Closure, 24Vdc, NPN,
PNP, Quadrature



INDOOR OR OUTDOOR USE

Count Range from 2 digits to 12 Digits

High Brightness LEDs

LARGE DIGITAL LED COUNTERS & RATE DISPLAYS

GENERAL OVERVIEW – LED DIGITAL COUNTERS

These robust Digital LED Counters and Rate Displays are available with as few as 2 digits to as many as 12 LED digits in single line or multi line format.

They will accept all INDUSTRY STANDARD INPUTS

Contact Closure
24Vdc from a PLC

NPN
PNP
Quadrature

They are suitable for INDOOR or OUTDOOR applications with the appropriate IP and NEMA rating cases.

MAX COUNT SPEED

- 3KHz

UP OR DOWN COUNTING (SINGLE LINE)

UP COUNTING

The Large Digit LED COUNTERS are also called TOTALISERS, where from an input signal they will count UP either to the maximum range of the counter, or they can be programmed to STOP at a predetermined value and provide an output via a Relay, for example, to start another related operation. The Large LED Counter can continue to count up after that event or it can be RESET.

DOWN COUNTING

This type of Large Digit LED COUNTER is also called a BATCH COUNTER, whereby a preset value is entered and then the counter is activated by input signal to count down from this value to ZERO or another preset value.

UP OR DOWN COUNTING (DUAL LINE OR MULTILINE) LED DISPLAYS

Like the SINGLE line UP or DOWN Counters, a typical dual line counter provides two visual lines of information at all times –

TARGET X X X X

ACTUAL X X X X

Here a TARGET (Goal) figure is entered (for what is wanted) and the ACTUAL figure is what is actually happening.

Sometimes a THIRD LINE is required to show TIME taken to achieve the TARGET.

There are many options open to individual application needs.



UP / DOWN COUNTING (ADD & SUBTRACT) LED DISPLAYS

Standard feature on all Counters

INPUTS / MULTI CHANNEL LED DISPLAYS

Standard 1 input but up to 5 Input channels may be ordered

RATE LED DIGITAL DISPLAYS (SPEED)

Used extensively to display **LINE SPEED** in engineering units per Hour, Minute or Seconds via typically PNP inputs, or any other device where **SPEED** is a concern. **The maximum RATE / COUNT SPEED is 3KHz.**

Refresh option is available and the refresh time should be stated when ordering

Example : The display will count input pulses for a minute and display that figure for a minute and then refresh the display after a minute to display the last minute run. These figures can be varied.

Most applications would only require 4 or 5 digits and a decimal point is available.



FASCIA LEGENDS / SYMBOLS

Any Legend can be factory fitted to depict your COUNT or RATE engineering unit.

NO EXTRA CHARGE IS MADE FOR THIS

Please advise what Legend you require at the time of ordering

MOUNTING OPTIONS OF LARGE DIGITAL COUNTERS & RATE DISPLAYS

PANEL MOUNT CASE

Limited to the 2.3" (58mm) and 4.0" (102mm) high digits, these panel mount displays can be used Indoors or Outdoors. This applies up to 6 digits for the 2.3" and 4.0".

CASE H (HEIGHT) AND L (LENGTH)

3 DIGIT LED DISPLAY PANEL CUT OUT

2.3" – H103 x L191mm + 53mm for legend
4.0" – H158 x L311mm + 92mm for legend

4 DIGIT LED DISPLAY PANEL CUT OUT

2.3" – H103 x L244mm + 53mm for legend
4.0" – H158 x L403mm + 92mm for legend

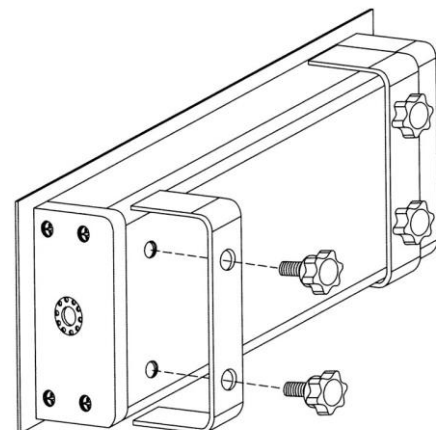
5 DIGIT LED DISPLAY PANEL CUT OUT

2.3" – H103 x L297mm + 53mm for legend
4.0" – H158 x L495mm + 92mm for legend

6 DIGIT LED DISPLAY PANEL CUT OUT

2.3" – H103 x L350mm + 53mm for legend
4.0" – H158 x L587mm + 92mm for legend

Add 10 mm to H x L for facias for all



2.3" and 4.0" PANEL MOUNTING CASE

SUSPENSION MOUNT

(Chains for Ceiling or Gantry **not supplied**)

Popular for DOUBLE SIDED DISPLAYS.



WALL MOUNTING

Wall mounting cases are supplied with adjustable side brackets with a ‘ **TILT** ’ facility

OVERALL CASE DIMENSIONS in millimeters (without brackets) FOR 2.3”, 4.0”, 6.0”. Please consult sales office for larger height digits.

CASE H (HEIGHT) AND L (LENGTH)

2.3” (58MM) DIGIT HEIGHT

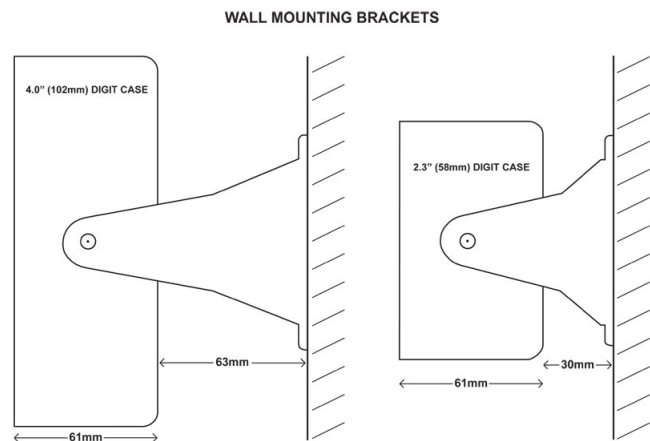
2 Digit H100 x L151 x D61
3 Digit H100 x L198 x D61
4 Digit H100 x L251 x D61
5 Digit H100 x L304 x D61
6 Digit H100 x L357 x D61
8 Digit H100 x L463 x D61

4.0” (102MM) DIGIT HEIGHT

2 Digit H155 x L226 x D61
3 Digit H155 x L318 x D61
4 Digit H155 x L410 x D61
5 Digit H155 x L502 x D61
6 Digit H155 x L594 x D61
8 Digit H155 x L778 x D61

6.0” (160MM) DIGIT HEIGHT

2 Digit H240 x L350 x D95
3 Digit H240 x L460 x D95
4 Digit H240 x L650 x D95
5 Digit H240 x L800 x D95



LARGE DIGIT HEIGHT OPTIONS

HIGH LED Digit options 2.3" (58mm) 4" (102mm) 6" (152mm) 8" (203mm) 12" (305mm) 14" (355mm) 16" (405mm) 18" (457mm)

LED DISPLAY VIEWING DISTANCES

The viewing distances shown below are true to the LED manufacturers specifications and will give **CLEAR UNAMBIGUOUS READING – They are NOT to be taken as Maximum distances.**

Eye sight differs from person to person, we have given a fair distance for consideration.

• 2.3" (58mm)	Clear viewing up to 15 meters / 50 feet
• 4.0" (102mm)	Clear viewing up to 35 meters / 115 feet
• 6.0" (160mm)	Clear viewing up to 55 meters / 180 feet
• 8.0" (203mm)	Clear viewing up to 75 meters / 246 feet
• 12.0" (305mm)	Clear viewing up to 115 meters / 377 feet
• 14.0" (355mm)	Clear viewing up to 135 meters / 442 feet
• 16.0" (405mm)	Clear viewing up to 155 meters / 508 feet
• 18.0" (457mm)	Clear viewing up to 170 meters / 557 feet

IP / NEMA (USA) ENVIRONMENT PROTECTION RATINGS

All our displays are IP54 / NEMA 13 and IP65 / NEMA 4 rated.

DAYLIGHT VIEWING LED – HIGH BRIGHTNESS

Hi brightness LEDS are used for all OUTDOOR applications but in situations of murky INDOOR atmospheres/environments these can also be fitted to ensure visibility at all times.

POWER SUPPLY OPTIONS

95~265Vac
24Vdc
12Vdc

GENERAL SPECIFICATIONS OF LARGE DIGITAL LED COUNTERS & RATE DISPLAYS

LED COLOURS AVAILABLE

- 2.3" (58mm)  only
- 4.0" (102mm)  or 
- 4.0" (102mm)  /  Colour change at presets

LAST DIGIT ROUND UP (RATE DISPLAYS ONLY)

Programmable 5, 10

DECIMAL POINT POSITIONING (RATE DISPLAYS ONLY)

1, 2, 3, 4 places depending on scale range

ALARM OUTPUTS

- HI, LO or HI/LO.
- 1 or 2 Alarm option.
- All Alarms 3A SPCO Relay

SERIAL DATA OUTPUTS

Please consult Sales Office (RS-232, RS-485, ASCII, MODBUS)

ANALOGUE RETRANSMISSION

0~20mA or 4~20mA

ENVIRONMENTAL OPERATING CONDITIONS

-10 ~ 45 °C / 14 ~ 113 °F