

Catalogue

Big Digit Digital Clocks, Counters & Timers & Custom Digital Displays

by Mimic Components



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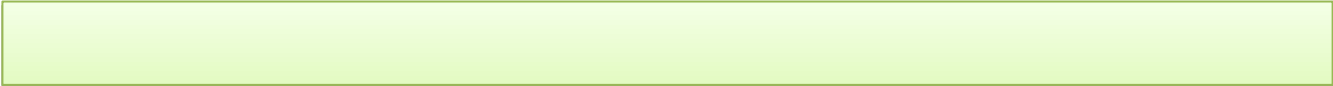


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Large Digit Displays

Industrial Digital Clocks & Counters

Mimic Components locally produces digital clocks and counters. They are designed specifically for the *industrial markets* to count quantities or for use as a time application.

Manufacturing is either a standard product or customized on request. Till today, the big digits are considered to be one of the industry's best sellers.

Applications: There are two main types of applications: these are a 24-hour digital time-keeping clock found in almost every sector where timekeeping is a daily requirement. This would include most factories from processing to garages, in the banking sector, shopping malls, at sporting stadiums, in underground mining, in large areas such as industrial plants, substations, as well as in schools and other similar places.

The other popular type of application is for counting purposes: for example, it can be used either as an elapsed time counter that functions as an up/down counter or as a stop/start & count, digitally displayed counter.

Recently, the digital display of temperatures found their way in areas like hospitals and laboratories. By linking big digits to a temperature controller, it can function in other hot or cold temperature-controlled environments. These extremes include cold rooms, fresh and dairy produce, to warmer livestock environments like hatcheries, and large insect breeding rooms. Open plan warehouses and queuing stations also benefit from overhead displays of either time or room temperatures.

General Features

All the units are fitted in a rugged powder coated aluminium enclosure with wall mounting brackets on the sides. The displays are constructed from RED high brightness seven segmented LED displays that give excellent visibility over large viewing areas. The modules can be supplied with either 4 or 6 digits up to 180mm high.

In the event of a power failure, the battery back-up function keeps the last-count or time and blanks the display until the main supply is restored. Afterwards, it continues to function normally making the re-adjustment of count or time unnecessary after power failures. The big digit counters and clocks have been upgraded to include a high stability temperature compensated crystal oscillator to give an accuracy of 1 minute per year from 0°C to 40°C.

All inputs are isolated via opto-couplers giving the units flexibility with regards to the input voltage. Materials include standard RED LED lights to ensure longer-lasting lighting hours, rendering this to be a high-quality product. Mimic offer technical support and stocked spare parts.

OPTIONS 4/6 DIGITS, 100MM/180MM HIGH DIGITS



SPECIFICATIONS:

100MM & 180MM High Digit Options

WDCLK4100 (4-digit clock)

WDCNT4100 (4-digit counter)

WDTIM4100 (4-digit timer)

WDCLK6100 (6-digit clock)

WDCNT6100 (6-digit counter)

WDTIM6100 (6-digit timer)



Big Digit Clocks & Counters: (180mm Digits)

4 Digits

Size: (H) 195mm (W) x 565mm (D) x 74mm



Big Digit Clocks & Counters: (180mm Digits)

6 Digits

Size: (H) 195mm (W) x 760mm (D) x 78mm



Big Digit Clocks & Counters: (100mm Digits)

4 Digits

Size: (H) 130mm (W) x 465mm (D) x 74mm



Big Digit Clocks & Counters: (100mm Digits)

6 Digits

Size: (H) 130mm (W) x 565mm (D) x 78mm



WDCLK4100 (4-Digit Clock) 24 Hour Clocks

WDCNT4100 (4-Digit Counter)

Elapsed Time Counters

(Stop, start & Count)

Up/Down counters



WDTIM4100 (4-Digit Timer)

Elapsed Time Counters

(Stop, start & Count)

Up/Down counters



WDCLK6100 (6-Digit Clock)

24 Hour Clock



WDCNT6100 (6-Digit Counter)

and

WDTIM6100 (6-Digit Timer)

Elapsed Time Counters

(Stop, start & Count)

Up/Down counters



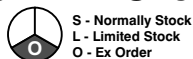
WDCNT6100PS

(6 Digit)

(Proximity Sensor)

MEASURING INSTRUMENTS & CONTROLLERS

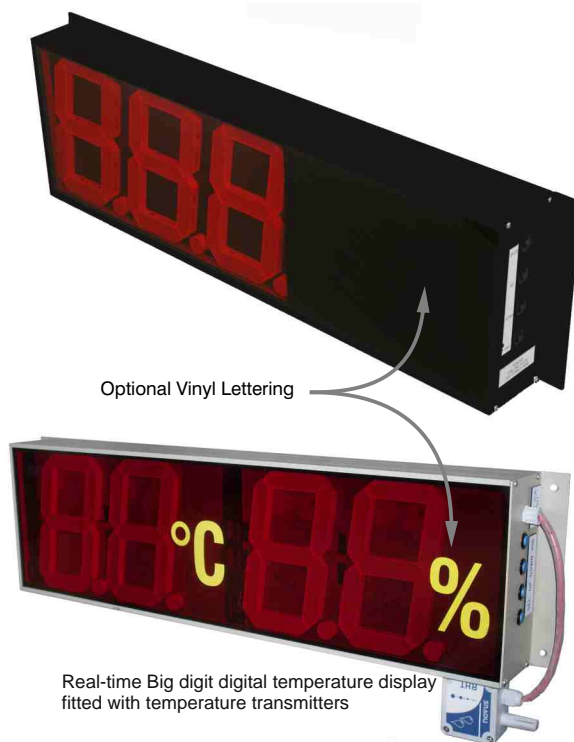
WDIND4100 (Big Digit Display - 4 Digit Programmable)



BIG DIGIT DISPLAYS

Big Digit Digital Temperature Display

- Top quality Industrial Displays using large bright 100mm or 180mm digits.
- These units are for indoor use only, and are ideal for situations requiring a large clear display.
- The digits can be read from approx 60m away (depending on ambient light).
- Models are available to operate off a variety of input signals : 4-20mA, 0-10V, B.C.D etc
- 4 & 6 Digit Modbus versions also available.
- Black or Cream case options
- Optional Vinyl lettering
- Programmable input range : 0-20mA and 4-20mA
- User programmable display range -1999 to 9999 (decimal point selectable)
- Controls on the side of the housing.
- High Brightness Red 100mm LED display with user variable brightness.
- 3 Year guarantee
- High accuracy
- Supply voltages; 24Vdc ± 15 , 115VAC or 220VAC 10%
- Power consumption; 22W max
- Accuracy, linearity; 0,05% of Full Scale, ± 1 count
- Internal A-D resolution; >260 000 counts
- Input Impedance; 100 W
- Temperature coefficient; 30 ppm/ $^{\circ}\text{C}$ typ
- Conversion rate; 1-5 per second (adjustable)
- Settling time; 1 second
- Memory retention; Non volatile operation
- Operating temperature range; 5°C - 50°C



Real-time Big digit digital temperature display fitted with temperature transmitters

Big Digit Digital Temperature Display.

Real-time display of Temperature.

Designed for real-time temperature display in large open areas or as an easy-to-read wall-mounted large viewing display. Wall mount in open areas or as a standalone temperature & humidity display in monitoring rooms.

Black/White frame. 100MM & 180MM High Digit Options.

Optional battery backup power.

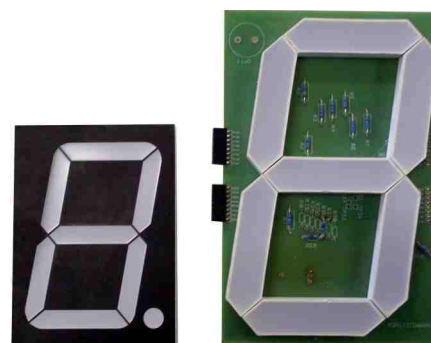
Display unit linked to a fitted RHT Humidity & Temperature Transmitters.

All inputs isolated via opto-couplers for unit input voltage flexibility.

Additional Custom requirements such as alarm sirens available on request.

Also available as a 4-20mA display unit, clock or timer.

Applications: Hospitals, Laboratories, Seed & Plant Nurseries, Live Stock Incubating & Breeding Rooms as well as standard Clocks, Counters & Timers for General Industrial use such as product count display.



100 or 180mm Digit Height Options



Hatchery: Big Digit Digital Temperature Display fitted with RHT Humidity & Temperature Transmitters and connected to an Egg Incubator with N323RHT (EI) temperature controller.

Section 4 of Main Catalogue

MEASURING INSTRUMENTS & CONTROLLERS

BIG DIGIT DISPLAYS

APM4060-220A 220VAC

Product Features:

- Programmable input range: 0-20mA and 4-20mA
- Standard DIN enclosure: size 144 x 288 x 60mm (Depth)
- Cutout: 139 x 283mm
- User programmable display range-1999 to 9999 (decimal point selectable)
- Controls available behind display lens (hidden controls prevent unauthorized adjustment) or alternatively pushbuttons on front face with lockout selector on rear of enclosure. (Standard)
- High quality tactile pushbuttons (no membrane to peel off).
- Programmable Hi and Low voltage free contacts with adjustable hysteresis
- High brightness Red or Green 57mm LED display with user variable brightness.
- LED indication of Hi and Low Alarms
- Removable plug in terminals
- 3 year guarantee
- High accuracy

Specifications:

Supply voltage	230Vac 10%
Power consumption	15W max
Accuracy, Linearity	0,05% of full scale, 1 count
Internal A-D resolution	65 000 counts
Input Impedance	100
Temperature coefficient	20 ppm/ °C typ
Conversion rate	5 per second
Settling time	1 second
Memory retention	Non volatile operation
Operating temperature range	-5°C+50°C
Alarm relay contact ratings	2A@250Vac



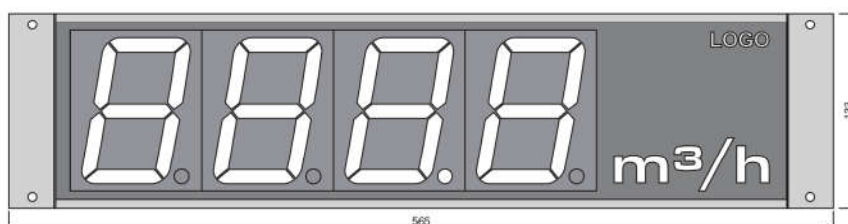
Bezel: 144x288mm

DPM3599-110A 110VAC

DPM3599-220A 220VAC

TOP QUALITY 3½ DIGIT INDUSTRIAL DISPLAY UNIT USING LARGE BRIGHT 100mm DIGITS

These units are for **indoor use** only, and are ideal for situations requiring a **large clear display**. The digits can be read from approx. 60m away (depending on ambient light), and models are available to operate off a variety of input signals :- **e.g. 4-20mA, 0-10V, B.C.D etc...**



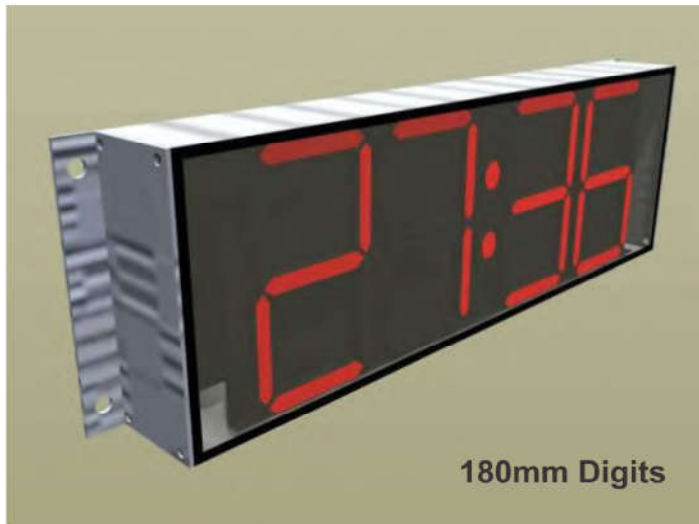
4 & 6 Digit Modbus versions also available



180mm heigh digits on special order

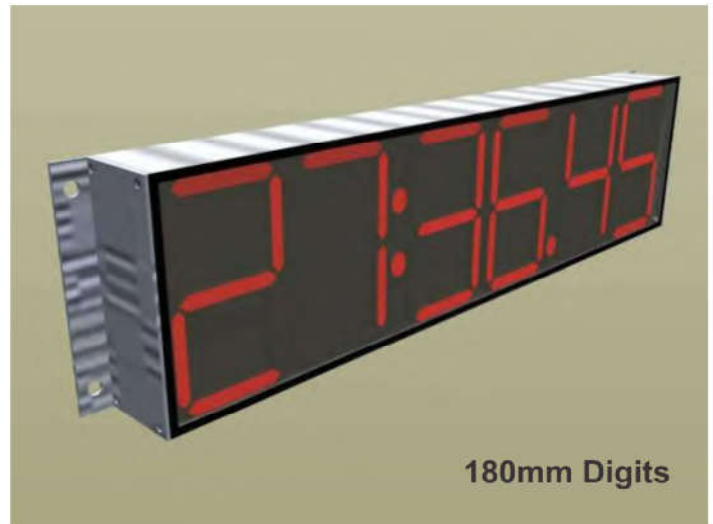
Also available as 24hour clocks, counters or Elapsed time indicators

BIG DIGIT CLOCKS & COUNTERS



180mm Digits

4 Digit Size: 195mm (H) x 565mm (W) x 74mm (D)



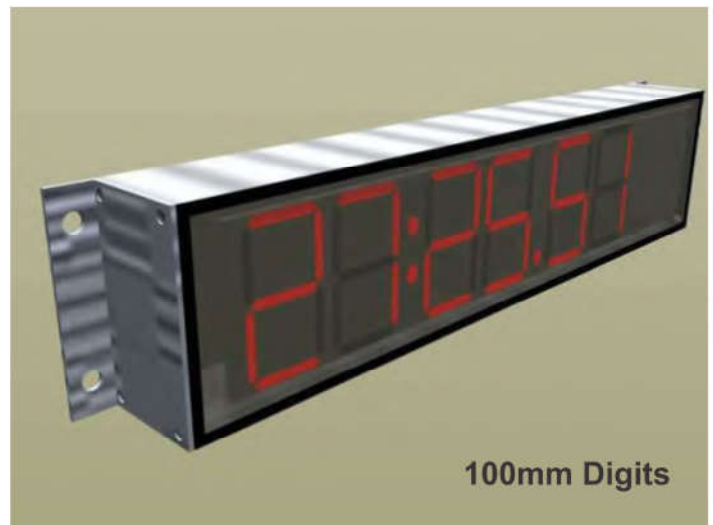
180mm Digits

6 Digit Size: 195mm (H) x 760mm (W) x 78mm (D)



100mm Digits

4 Digit Size: 130mm (H) x 465mm (W) x 74mm (D)



100mm Digits

6 Digit Size: 130mm (H) x 565mm (W) x 78mm (D)

SPECIFICATIONS

100mm & 180mm High Digit Options

WDCLK4100 (4-Digit Clock)

WDCLK6100 (6-Digit Clock)

WDCNT4100 (4-Digit Counter)

WDCNT6100 (6-Digit Counter)

WDTIM4100 (4-Digit Timer)

WDTIM6100 (6-Digit Timer)

GENERAL PRODUCT DESCRIPTION:

This range of clocks/counters have been designed specifically for the industrial market for time and counter applications. These modules can be supplied with six digits up to 180mm height and with count/time backup on power failure. All inputs are isolated via opto-couplers giving the units flexibility with regards to the input voltage.

All the units are fitted in a rugged powder coated aluminium enclosure with wall mounting brackets on the sides. All the displays are constructed from red high brightness seven segment LED displays giving excellent visibility over large viewing area. The battery back-up function keeps the last-count or the time and blanks the display until the main supply is restored and then continues to function normally.

Re-adjusting the time or count therefore is not required after a power failure. The clocks have been upgraded with a high stability temperature compensated crystal oscillator to give an accuracy of 1 min per year from 0°C to 40°C.

PRODUCTS CURRENTLY AVAILABLE:

- Elapsed time counters (Stop, start & count)
- Up/down counters
- 24 hour clocks

DIGITAL CLOCK (PANEL MOUNT) 38mm LED DIGITS

- 1) 12 or 24 hour format
- 2) Hours and minutes switchable to minutes and seconds for special Functions.
- 3) Also available as elapsed time indicator.
- 4) Good accuracy, mains version counts frequency and 24V dc has high accuracy oscillator.
- 5) Battery backup in case of mains failure (display blank but time is kept).
- 6) Optional setting buttons (front or via connectors on rear).



VERSIONS AVAILABLE:
24V DC OR 230V AC

VIEW BEHIND LENS

