## BATTERY POWERED DIGITAL THERMOMETERS

#### DM600 SERIES

BATTERY POWERED

RTD OR TC INPUT OPTIONS

PUSH BUTTON CONFIGURABLE

4 DIGIT DISPLAY

HOUSING ABS PLASTIC OR STAINLESS STEEL

> SEALED TO IP67

ATEX APPROVED IN ABS HOUSING



### INTRODUCTION

The DM600 series of battery powered indicators accepts either an RTD (DM640P) or a Thermocouple (DM640TC) input. Each device shows the temperature on a 4 digit LCD display.

The unit is microprocessor based. The sensor type is selected from a simple to use menu system which is navigated by the use of three push buttons located on the rear of the display. This feature enables the user to easily configure the device in the field without the use of any other equipment. The DM640P and DM640TC are sealed into a cap as pictured above. There are several mounting options including the SCH4 series of enclosures and a stainless steel option, the SCH15

ATEX versions are available for use in hazardous dust and gas areas.

## SPECIFICATION @20 °C

General

Display 4 digit LCD
Ambient DM640 (-10 to 70) °C
DM640X(-10 to 50) °C

DM640X(-10 to 50) °C
Battery Type 3.6 V Lithium AA replaceable

Battery Life 1 year minimum Battery Alarm Via display

Connection 3 terminal screw block
Configuration Security Passcode protected
I.S Approval ATEX II 1GD EEx ia IIC T4
(Option) ABS Housing only

DM640P

Accuracy  $\pm 0.2 ^{\circ}\text{C} \pm 0.1 \%$  of reading

Measuring Range (-100 to 800)  $^{\circ}\text{C}$ 

DM640TC

Accuracy  $\pm 0.1\%$  of full scale  $\pm 0.5$  °C

Measuring Range (-200 to 1800) °C

Mechanical

Ph: 1300 768 887

Connections 3 Way terminal block

Maximum Wire Size 1.5 mm<sup>2</sup>

Environmental Rating IP67 when in appropriate

enclosure

#### DM640 SHOWN IN A SCH15 ENCLOSURE





# BATTERY POWERED DIGITAL THERMOMETERS

## **CONFIGURATION**

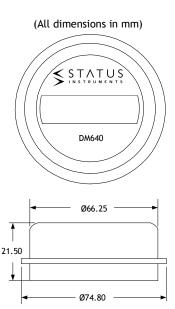
The pictures below show the operation of the easy to use configuration menu. By pressing the three buttons, the user gains access to all configuration parameters including the following:

- Security passcode protection. Sensor type; K, J, T, R, S, E, L, N or B for DM640TC; Pt100 or Ni120 for DM640P.
- Temperature units; °C or °F.
- User offset; intended to offset the displayed temperature by a user-configurable amount.
- Display resolution; 1, 0.1, 0.01 or 0.001 °C.
- Configuration menu time out adjustment.
- Low battery alarm.
- Reset to factory default.
- Easy on-site re-calibration when required.
- Pt100 offset/scale adjustment; intended to adjust BS EN 60751 to mimic other standards such as JISC 1604.



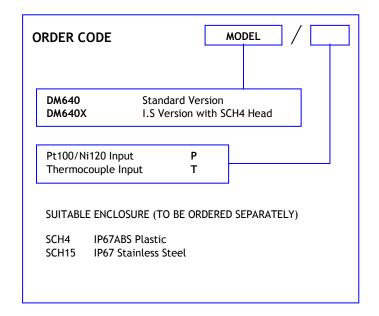


## MECHANICAL DETAILS



SCH4 Enclosure Mounting





Status Instruments Ltd Green Lane Business Park Green Lane, Tewkesbury Gloucestershire, UK GL20 8DE

Tel: +44 (0)1684 296818 Fax: +44 (0)1684 293746 Email: sales@status.co.uk Website: www.status.co.uk
D2416-01-06 CN4808 DM600 Data Sheet

