



MODEL SME 2460-P

MICROPROCESSOR BASED VIBRATING WIRE DIGITAL INDICATOR (INTRINSICALLY SAFE MODEL)

FEATURES

- * Rugged design.
- * Double line alphanumeric display.
- * Rechargeable pencil cell operation.
- * Internal Real -Time clock.
- * Battery Backed 32 KB Memory.
- * Most Compact size
200mm (L), 160mm (W), 117mm (H)
- * Intrinsically safe certified by
CMRI/DGMS Dhanbad.



DESCRIPTION

Model SME 2460-P is vibrating wire type readout unit which is modified version of old readout unit. It is designed for use with all SME make vibrating wire sensors in all kind of weather. The SME 2460-P read out unit has double line alphanumeric LCD. The first row is for data display and second row is for date & time display. It has memory of 2500 sensors.

It can read and display readings and can store all readings in memory. The indicator can read and display data in Time Period, Frequency, Frequency square, or directly in Engineering unit like Ton, kg/cm^2 , mm, cm, m, Degree centigrade, Degree & Micro strain etc. Storage of the reading and measurement is done through a simple 16 position membrane Key Pad. Each stored reading is identified by a reference number. Selection of serial number is done through Key Pad. One useful feature of this Indicator is its ability to see the last data of any sensors. This helps the user on site evaluation of the readings and the early detection of damage.

The programming mode permits the users to program the indicator for taking the sensors data directly in engineering units by feeding the sl.no. of sensor, K factor, zero reading, Engineering unit etc. up to a maximum of 2500 readings of different sensors.

SPECIFICATION

Excitation Range	:	400 Hz to 6000 HZ, 5V square wave
Measurement resolution	:	0.5 ms
Memory	:	62 K.EPROM
Reading storage	:	Approx 2500 data in engineering mode with time & date.
Real time clock	:	A real time clock is provided and data will be stored with time & date. RTC is battery backed and will keep the record even if the indicator is kept off. RTC time keeping accuracy is ± 1 min per month
Display	:	LCD dot matrix alphanumeric display 16 character x 2 lines.
Temperature range	:	0-45°C
Battery	:	1.2 Vx 1300 mah rechargeable Nickel Cadmium pencil cells 8 nos.
Operating time	:	20 hours when fully charged cells.
Connection	:	4 pins circular connector is provided on indicator. Pin no. 2 & 4 are used for charging and 1 & 3 for sensor measurement. Two separate connectors are provided for charging & data sensing.
Measurement parameter	:	Basic measurement is time period (in m.sec.), frequency (Hz) & frequency square can be seen directly . For engineering unit display programming of indicator is needed. In engineering unit mode data can be seen in Strain, ksc, °C. tons, mm & cms.
Key board	:	16 key sealed membrane key pad. Keys are multiple functions.
Dimensions	:	200mm (L) x 160mm (W) x 117mm (H) M.S. housing in case & carrying belt.
Weight	:	3.5 kg. approx.
<u>Intrinsically safe certified</u>	:	<u>The unit is tested by CMRI Dhanbad as per IS/IEC 60079-11:2006 for intrinsically safe and approved by DGMS circular no. - 15 of June 2015 and BIS License no. 9300040008.</u>

Due to continuous development program the specification and dimensions are subject to change without notice. Our engineers do undertake the work for development as per the customer's requirement.

Sensors & Measurements Enterprises

Works cum office : A-65(1), Govt. Industrial Estate Talkatora Road, Lucknow-226011,
Mob. +91-9415101236, 9838562636 email: smeprajapati@gmail.com , smegeotech@gmail.com,
website: www.smegeotech.com.