



MODEL SME-2100

VIBRATING WIRE TEMPERATURE METER

FEATURES

- * Reliable data
- * Simple installation
- * All stainless steel body
- * Rugged design
- * High resolution

APPLICATION

Vibrating wire type temperature meter is very useful instrument for accurate temperature measurement in the following applications:-

- * Long term temperature measurement in large dam structure at various locations to analyze Concrete Temperature during and after construction.
- * In large embankment & big concrete structure.
- * At vast isolation site
- * Under railway tracks
- * Under highways.

DESCRIPTION

Vibrating wire type temperature meter is simple in design and comprises of an element made of high temperature co-efficient material housed in a stainless steel hermetically sealed casing. A strain difference is created between element material and gage wire material and the same can be calibrated in terms of time period or frequency or micro strains and readable direct in Degree Centigrade also on a vibrating wire Readout Unit model SME 2460-S. In design the gage wire is clamped between two fixed point in element and an electromagnet is located near center of wire, when a pulse voltage is fed to magnet coil it makes the wire to vibrate at its resonant frequency. As temperature increases tension also increases in wire and so the resonant frequency. This temperature, frequency relation is calibrated in terms of temperature in Degree Centigrade in Readout Unit model SME 2460-S.

ADVANTAGE

The Vibrating wire principle offers advantage of measurement of an output signal in terms of frequency virtually ineffective of stray current, resistance of junction terminals or by the impedance of electrical cable. The basic advantage being the reliable data as long as one kilometer cable without any deviation.



SPECIFICATION:

Model	: SME-2100
Range	: -20° to 70° (other on request)
Accuracy	: Better than 1% (std) and 0.5% or 0.25% on demand
Temperature Range	: -20°C to 70°C
Insulation resistance	: Better than 1000 mega Ohms
Electrical connection	: 2 core shielded cable
Humidity	: 0-95% RH
Material	: Stainless steel

ORDERING INFORMATION

Specify: Model
 Range
 Accessories required

ACCESSORIES

Readout unit model SME 2460-S
Terminal box
Cable joint kit

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,
Telefax: 0522-2661617, mob. +91-9415101236, 9565563203 email: smeprajapati@gmail.com,
smegeotech@gmail.com, website: www.smegeotech.com.