



SOIL COMPRESSION SENSORS (SCS) MEASURE HORIZONTAL OR VERTICAL DISPLACEMENTS IN SOILS OR SUBGRADE MATERIAL. SCS'S ARE RUGGEDIZED TO WITHSTAND THE HARSH ENVIRONMENT IN SOILS AND CONSTRUCTION FILL MATERIAL DURING PLACEMENT AND COMPACTION. THESE GAGES ARE MOISTURE PROOF USING O-RINGS IN BODY SLEEVES TO PREVENT MOISTURE INGRESS. THEY CAN FUNCTION TO MEASURE COMPACTION OR EXPANSION OF SOILS IN VARIOUS SUBSURFACE LAYERS.

GAGES UTILIZE DISPLACEMENT TRANSDUCERS TO MEASURE 1.5+ INCH TRAVEL RANGE OVER CUSTOM GAGE LENGTH AND DYNAMIC RESPONSE. STANDARD WIRING CONFIGURATIONS ADAPT TO MOST DATA ACQUISITION SYSTEMS.

SPECIFICATIONS

MODEL	SCS-002
MEASUREMENT RANGE (R) ¹	1.95 in (49.5 mm)
RESISTANCE ²	5,000 Ohms
GAGE LENGTH (L)	Customer specified between 6 to 24 in (150 to 610 mm)
EXCITATION VOLTAGE	+1.0 to +30.0 Vdc
OUTPUT	Full Scale Output, proportional to Excitation Voltage
TYPE	3-wire potentiometer
LINEARITY	±1%
POWER RATING	
MAX	180 mW
TYPICAL	5 mW @ +5.0 Vdc
INTELLIDUCER ³	13 mW @ +5.0 Vdc
RESISTANCE TEMPERATURE COEFFICIENT	400 PPM/°C MAX
THERMISTOR (OPTIONAL)	3 kΩ - NTC
CABLE	Custom lead cable length made to order: IC-02-187 [22 AWG, 2 shielded pair, drain wire, red PVC jacket] IC-03-250 [24 AWG, 3 shielded pair, drain wire, green PVC jacket]
TEMPERATURE RATING	-58° to +176 °F (-50° to +80 °C)

¹ Larger ranges are available upon request.

² Resistance tolerance ±10%

³ Intelliducer connector required with STS Intelliducer data acquisition nodes.

OPTIONS & ACCESSORIES



Intelliducer Connector - Required for use with STS Intelliducer Nodes. Instrumentation Cable is integrated into connector and potted.



Instrumentation Cable - 2 shielded twisted pair (22 awg) with drain wire, 0.187" diameter, red PVC jacket.