

6513R

MODBUS SOIL MOISTURE AND SALINITY/EC PROBES



MODEL R



6513R-02 soil moisture, temperature and EC sensor is a cost-effective precision multi-function sensor that utilises MODBUS communication protocol.

The fully sealed probe is temperature compensated, ensuring data accuracy and easy installation.

6513R-03 soil EC and salinity sensor integrates graphite electrode, and precision platinum thermometer for accurate, temperature compensated measurements of soil salinity and EC.

The sensor is simple and easy to operate and suitable for monitoring of water and salt dynamics in the soil as well as in anti-corrosion monitoring of the underground oil and gas pipelines.

When used with a companion Unidata IP data logger, collected data is transmitted to a central Neon server where data can be viewed on the Neon Web server in near real-time from any browser. Same data can be reported to other systems using email, ftp, and web services.

6513R-02 SOIL MOISTURE, TEMPERATURE AND EC SENSOR SPECIFICATIONS

TECHNICAL SPECIFICATIONS	
RANGE	
MOISTURE:	0-100% (m ³ /m ³)
TEMPERATURE:	-30°C to +70°C
EC:	0-10mS/cm
ACCURACY	
MOISTURE:	±2% (0-50%), ±3% (51-100%)
TEMPERATURE:	±0.5°C
EC:	±3%FS (0-10mS/cm), ±5% FS (11-20mS/cm)
EXTERNAL POWER:	12V-24VDC
I/O:	RS485
CABLE:	5m
PHYSICAL SPECIFICATIONS	
MATERIAL HOUSING:	ABS
MATERIAL PROBE:	316L Stainless Steel
SIZE:	133mm x 45mm x 16mm
INGRESS PROTECTION:	IP68

6513R-03 SOIL EC AND SALINITY SENSOR SPECIFICATIONS

TECHNICAL SPECIFICATIONS	
RANGE	
EC:	0-20mS/cm
SALINITY:	0-0.15mol/L
ACCURACY:	±2%
EXTERNAL POWER:	12V-24VDC
I/O:	RS485
CABLE:	2m
PHYSICAL SPECIFICATIONS	
MATERIAL HOUSING:	ABS
SIZE:	105mm x 45mm x 20mm
INGRESS PROTECTION:	IP67
OPERATING TEMPERATURE:	-30°C to +70°C