

MAGNUM ETOG-56

Sensor for MAGNUM Outdoor systems

Ground sensor type ETOG-56

Designed for embedding in the outdoor surface using the ETOK-1 sensor tube. Detects both temperature and moisture.

Sensor tube ETOK-1

Mounting tube for ETOG-56, supplied with a wood plug for covering the ETOK-1 hole during installation. Notch on side for conduit.

Mounting of sensor tube ETOK-1

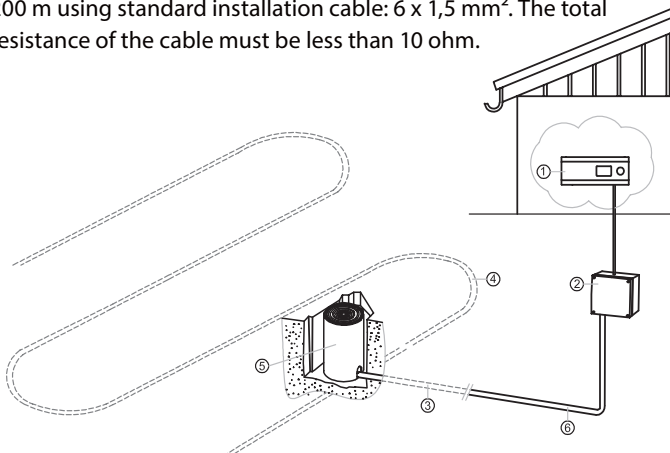
The sensor should be mounted in an open unsheltered location away from walls, etc. The tube must be embedded with its top completely horizontal and flush with the surrounding surface. It should be embedded in a hard surface, e.g. concrete or asphalt. A conduit, up to \varnothing 23 mm, must be inserted into the notch. It is recommended that the conduit be equipped with a cord in order to make it easier to pull the cable through. The accompanying wood plug must be placed in the hole before the concrete or asphalt is applied. Ensure that it is securely embedded in relation to the expected surface load.

Mounting of ground sensor ETOG-56

After the concrete/asphalt has cured, the sensor can be mounted. Remove the wood plug from the tube and ensure that the tube is clean. Pull the cable through the conduit, ensuring that the cable is not damaged on any sharp edges. Place the sensor in the tube. The sensor cable must fit easily through the hole in the bottom. The accompanying screw must be fitted in the middle of the sensor and securely tightened.

Mounting of sensor cable

The cable must be mounted in accordance with applicable local regulations. The cable must never be installed parallel to power cables as electrical interference may distort the sensor signal. The sensor is supplied with 25 m cable which can be extended up to 200 m using standard installation cable: $6 \times 1,5 \text{ mm}^2$. The total resistance of the cable must be less than 10 ohm.



Specifications

Detection	Moisture and temperature
Mounting	Outdoor surface
Cable length	25 m
Enclosure rating	NEMA 6P/IP 68
Temp. range (ambient)	-50°C / +70°C
Dimensions (sensor)	H32, \varnothing 60 mm
Dimensions (tube)	H78, \varnothing 63,5 mm
Heating (brown, green)	224 Ohm
Moisture (yellow/white)	0 Ohm (normally no value, with moisture: full lock)
Temperature sensor depending on temp.	-4 °C : 43 K/Ohm -2 °C : 39 K/Ohm 0 °C : 35 K/Ohm 2 °C : 32.4 K/Ohm 4 °C : 29.8 K/Ohm 5 °C : 27 K/Ohm 10 °C : 22 K/Ohm



Art.nr.	Description
890065	MAGNUM Sensor unit ETOG-56 temp./humidity for road surfaces