

# OJ Winterline™



## Sensors for ice and snow melting systems

- Embedded ground sensors for temperature and moisture detection
- Gutter sensor for moisture detection
- Outdoor temperature sensor
- On-pipe temperature sensor
- In-pipe temperature sensor

### PRODUCT PROGRAMME

Sensors	
ETOG-56	Ground sensor for embedding in outdoor surfaces, e.g. asphalt, 25 m / 82 ft cable
ETOK-1	Sensor tube for ETOG-56 ground sensor
ETOG/K-56	Installation kit Embedded ground sensor (ETOG-56) with tube (ETOK-1)
ETOG-55	Ground sensor for measuring temperature and moisture, 10 m / 33 ft cable
ETOR-55	Gutter sensor for moisture detection
ETF-744/99	Outdoor temperature sensor
ETF-622	On-pipe temperature sensor
ETF-522	In-pipe temperature sensor

#### ETOG-56 - Latest-generation embedded ground sensor

With its cable extending from the bottom, this sensor is designed for embedding in outdoor surfaces using the ETOK-1 Sensor Tube (not included). Detects both temperature and moisture.

Cable length: 25 m / 82 ft

#### ETOK-1 - Sensor tube for ETOG-56 ground sensor

This tube holds the ETOG-56 sensor firmly in place and allows for replacement if needed. The tube can even be embedded under high-temperature conditions such as when laying asphalt, thanks to a wooden plug (included) used during installation.

#### ETOG/K-56 - Embedded ground sensor with tube (installation kit)

Convenient kit including the ETOG-56 ground sensor and the ETOK-1 sensor tube – everything you need for easy installation.

Cable length: 25 m / 82 ft

#### ETOG-55 - Embedded ground sensor for temperature and moisture detection

Cost-effective sensor for installation under low-temperature conditions such as when pouring concrete. Detects both temperature and moisture.

Cable length: 10 m / 33 ft

#### ETOR-55 - Gutter sensor for moisture detection

Intended for installation in gutters, downpipes and similar applications. Measures moisture only and must be installed in combination with an ETF outdoor temperature sensor.

Cable length: 10 m / 33 ft

#### ETF-744 - Outdoor temperature sensor

The ETF-744/99 measures outdoor temperatures – including rapid temperature drops. Normally used with ETOR gutter sensors, but can also be combined with ETOG ground sensors.

Cable length: 2.5 m / 8.2 ft



ETOG/K-56



ETF-744



ETF-622



ETF-522



ETOK-1



ETOG-56



ETOG-55



ETOR-55

### ETF-622 - On-pipe temperature sensor

A temperature sensor with metal head, suitable for on-pipe mounting. Provides effective control of the supply- and return-water temperature in hydronic ice and snow melting installations.

Cable length: 2.5 m / 8.2 ft

### ETF-522 - In-pipe temperature sensor

Galvanized brass sensor designed to detect outdoor temperatures. Can be installed in pipe sockets. Provides effective control of the supply- and return-water temperature in hydronic ice and snow melting installations.

Cable length: 2.5 m / 8.2 ft

### TECHNICAL DATA

#### ETOG-55 Ground sensor

Measurement	Moisture and temperature
Installation	Outdoor surface
Housing	IP68
Temperature range (ambient)	-50/+70°C
Dimensions (H/Ø)	32/60 mm

#### ETOG-56/ETOK-1 Embedded ground sensor and tube

Measurement	Moisture and temperature
Installation	Outdoor surface
Housing	IP68
Temperature range (ambient)	-50/+70°C
Dimensions, sensor (H/Ø)	32/60 mm
Dimensions, tube (H/Ø)	78/63.5 mm

#### ETOR-55 Gutter sensor

Measurement	Moisture
Installation	Gutter or downpipe
Housing	IP68
Temperature range (ambient)	-50/+70°C
Dimensions (H/W/D)	105/30/13 mm

#### ETF-744/99 Outdoor temperature sensor

Measurement	Temperature
Installation	Wall surface
Housing	IP54
Temperature range (ambient)	-50/+70°C
Dimensions (H/W/D)	86/45/35 mm

#### ETF-622 On-pipe temperature sensor

Measurement	Temperature
Installation	On-pipe
Housing	IP54
Temperature range (ambient)	-40/+120°C

#### ETF-522 In-pipe temperature sensor

Measurement	Temperature
Installation	In-pipe
Housing	IP54
Temperature range (ambient)	-40/+120°C

<b>All products</b>	3-year warranty from production date
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