



LIQUID LEAK DETECTION SYSTEMS  
CONSTRUCTION DIVISION

# FG-ECS KIT

## Water And Base Sense Cable Kit

### Product Datasheet



- ▶ ECS Kit = Electronic Box + ECS Sense Cable
- ▶ Detects Water & Base Liquids
- ▶ Stand-alone System
- ▶ Small and Easy to Use

## Description

The TTK FG-ECS water detection Kit provides rapid detection of any water leak. The FG-ECS Kit is a standard length of water sense cable with an electronic box, which can be connected directly to an air-conditioning unit, a fan convector or a PLC input. The FG-ECS Kit acts immediately of leaks.

## Key Advantages

### A STAND ALONE SYSTEM

The FG-ECS Kit ensures permanent detection of areas at risk (ducts, flanges, valves, under-window air-conditioning units and fan convectors). The FG-ECS Kit is available in standard and pre-finished lengths of 3, 7, 15 m. The water sense cable must be installed to cover the areas at risk and thus limit the consequences of an undetected leak.

### EASY INSTALLATION

The FG-ECS kit is fitted with an electronic box, to be connected to a 2-pair link cable. The first pair available is used for supply in 24V AC/DC, the second is the fault signal, connected in Normally Open (NO) or Normally Closed (NC). The 0V (connection point 12) should be connected to the ground of the power supply.

The extremities and on-line junction of the FG-ECS Kit are waterproof and mechanically tested.

The sense cable should be dried shortly after detecting a leak. Special fixing clips are used to hold the length of cable sensing in the chosen location.

### A TOUGH AND STURDY DESIGN

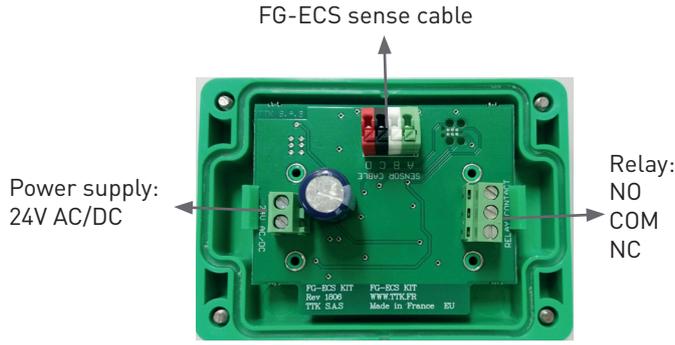
Small in diameter, the FG-ECS sense cable is light, flexible and of a recognizable colour. Its helical construction, connected on an extruded central core reduces the risk of contamination and untimely alarms. Operation of the detection system is facilitated by a short drying time of the FG-ECS sense cable.

It is made in a tested material, which is abrasive-resistant in hostile environments.

## Technical Data

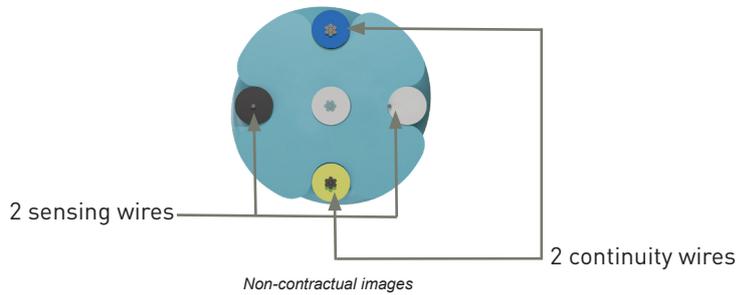
<b>Maximum Length of FG-ECS Cable per Kit</b>	15 m of FG-ECS sense cable
<b>FG-ECS kit Supply Voltage</b>	24 VAC/VDC
<b>Maximum Relay Capacity</b>	60W (30V x 2A)
<b>Maximum Relay Voltage</b>	125 VAC, 220 VDC
<b>Reusability</b>	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
<b>Drying Time for Cable After Leak</b>	Less than 10 seconds
<b>Sense Cable Nominal Diameter</b>	7.5 (± 0.5 mm)
<b>Central Core Material</b>	LSZH based on PE
<b>Minimum Bend Radius</b>	20 mm
<b>Colour</b>	Sense cable: dark blue; enclosure: green
<b>Operating Temperature</b>	-15°C to 55°C
<b>Ingress Protection</b>	IP 67
<b>Enclosure Type</b>	ABS Polylac 707 (a natural ABS), UL94HB
<b>Dimensions (W,H,D)</b>	105mmW x 75mmH x 55mmD

# Product Diagram



## FG-ECS Sense Cable Cutting View

2 communication wires and 2 detection and location wires



FG-ECS Sense Cable Belden Tip



FG-ECS Sense Cable End Termination Tip



# Identification Codes

<b>FG-ECS-Kit 3</b>	12/24V AC/DC Analogue Interface - Water & Acids Cables 3 m
<b>FG-ECS-Kit 7</b>	12/24V AC/DC Analogue Interface - Water & Acids Cables 7 m
<b>FG-ECS-Kit 15</b>	12/24V AC/DC Analogue Interface - Water & Acids Cables 15 m
<b>Accessories:</b>	
<b>CF-EC100</b>	100 Hold-down Clips with Adhesive for Water & Acids Cables
<b>ES-EC</b>	40 Tags for Water & Acids Cables

# Certification



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