

- ▶ Digital Pin-Point Leak Location
- ▶ Braid on External of Cable
- ▶ Embedded Microprocessor
- ▶ LED Status Indicator
- ▶ Detects Water and Base Liquids
- ▶ Designed for Suspended Pipe Solution
- ▶ Pre-connected in Standard Lengths

## Description

The TTK Digital Sense Cable FG-ECB detects and pin-points the location of water and base liquids leaks at any point along its length. The FG-ECB sense cable is designed for the FG-SYS, the FG-NET or the FG-BBOX Digital Unit to respond intelligently in the event of any leaks of liquids. The FG-ECB sense cable is supplied with an external polyethylene based braided jacket and is specially designed for pipes solution. (This can be held in place using a cable tie, if required.)

## Features & Benefits

### FEATURES

- Available in standard and pre-connected lengths of 3, 7 and 15 metres. They can be interconnected to provide an expandable network of leak detection.
- Same function as FG-EC Digital Sense Cable, the FG-ECB sense cables contain an embedded microprocessor, it intelligently monitors the cable status, it provides continuous real-time communication to the TTK digital units.
- Each cable has a high visibility LED to provide quick green/red identification of the cable status:
  - Green LED: normal status, no alarm raised;
  - Red LED: leak detection on the cable;
  - LED off: cablebreak on this or any upstream cable.
- Small diameter, light, flexible, the sense cable is in an easily identifiable light blue colour, with a white braided jacket.
- Ingenious design: external polyethylene based braided jacket and 4 PEHD conducted helical construction - connected on an extruded

central core, insensitive to dust and metal particles contamination, prevents false alarms.

- A set of TTK bus 8723 jumper cables and connection accessories gives continuity to each circuit.

### BENEFITS

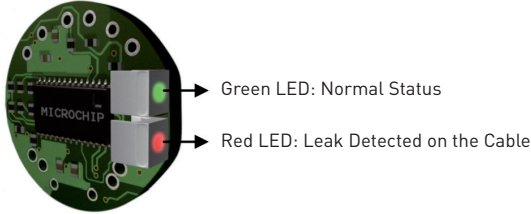
- Detects and pin-points the location of a water/base leak to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- The FG-ECB sense cable is a non-absorbent design that can be reused after leaks. Cable drying is easy.
- An external polyethylene based braided jacket keeps water around the cable thus assures an efficient detection.
- Easy installation with pre-finished male and female connectors. FG-ECB is to install under the suspended pipes, to be belt on the bottom of these pipes. No need drip tray.
- Flexible design: in both liner and sector mode (via FG-DTC box).

## Technical Data

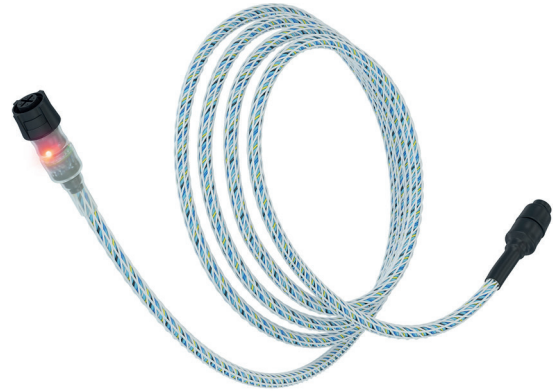
|  |   |
|--|---|
| <b>Compatibility</b>   | Digital units: FG-SYS, FG-NET, FG-BBOX<br>Diversion box: FG-DTC |
| <b>Maximum Rated Temperature</b>                                       | 65°C  |
| <b>Maximum Length of Digital Sense Cable per FG-SYS or FG-NET Unit</b> | Up to 120 lengths of FG-ECB, connected to 3 circuits            |
| <b>Connector Type</b>  | FCI-Clipper   |
| <b>Weight</b>  | 65g per metre   |
| <b>Sense Cable Diameter</b>  | 7 mm  |
| <b>Sense Cable Core Diameter with Braided Jacket</b>                   | 9 mm  |
| <b>Liquid Quantity to Active Alarm</b>                                 | 50-100mm on the sense cable                                     |
| <b>Drying Time</b>   | 30 seconds after drying the sense cable                         |
| <b>Breaking Strength for Sense Cable</b>                               | Minimum 75 kg   |
| <b>FG-ECB Jacket Colour</b>  | White   |

# Product Diagram

## Embedded Microprocessor in Female Connector:



## Female Connector with Addressable Electronic Module



# Identification Codes

|                    |   |
|--------------------|---|
| <b>FG-ECB15</b>    | Digital water and base sense cable with braid in 15m length with connectors |
| <b>FG-ECB7</b>     | Digital water and base sense cable with braid in 7m length with connectors  |
| <b>FG-ECB3</b>     | Digital water and base sense cable with braid in 3m length with connectors  |
| <b>Accessories</b> |   |
| <b>FG-NC(x)</b>    | “TTK Bus 8723” with female connector  |
| <b>FG-TMC</b>      | Modular end termination plug  |
| <b>FG-DTC</b>      | Diversion box   |
| <b>CF-EC100</b>    | 100 hold-down clips with cold adhesive glue                                 |
| <b>ES-EC</b>       | 40 signal tags  |

# Certificates



All TTK sensing cables are designed as a part of the leak detection system thus included in the approval certification for TTK monitoring panels. FG-NET and FG-SYS systems meet the requirements of all European Standards in EN 50081 and EN 50082 EMC. FG-NET and FG-SYS systems meet the TÜV requirements, according to IEC 61010-1/A2. FG-NET and FG-SYS systems are UL Listed.

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