



# Diamond Controls

Leak Detection & Trace Heating Systems

## DATASHEET



Detects the presence of water at any point along its length



Designed to attach to overhead pipes



Can be monitored by both the TraceTek digital pinpoint location system & AquiTron zonal panels



WATER LEAK DETECTION

# TT1100-OHP

## Water Sensing Cable For Suspended Pipe

nVent RAYCHEM TraceTek TT1100-OHP sensor cable detects water leaks at any point along the cable length. When used in conjunction with TraceTek monitoring instruments, the cable senses the presence of a water leak, triggers an alarm and pinpoints the location of the leak to within ±1 meter accuracy.





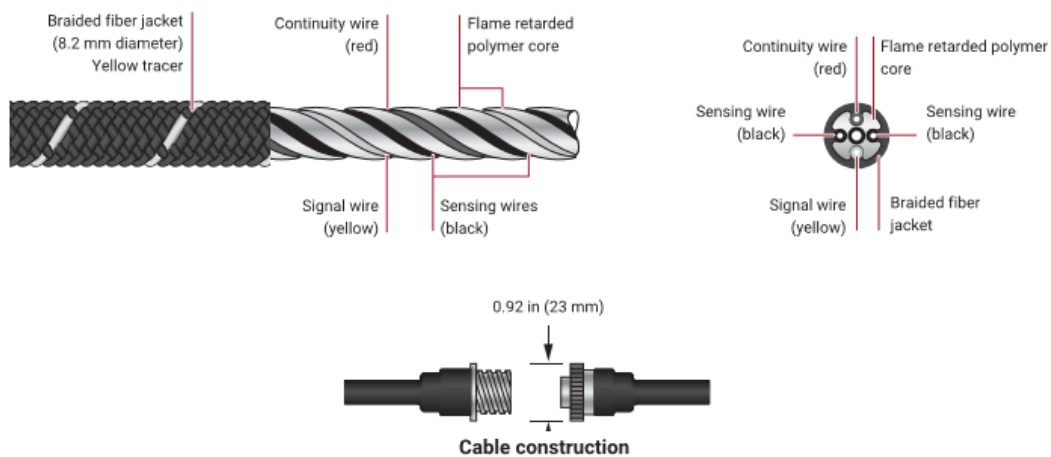
### TARGETED DESIGN FOR SUSPENDED PIPING

TT1100-OHP is supplied with an absorptive synthetic fiber braid designed to wick water along the cable even when the water leak is dripping from a single small pin hole or crack. The fiber is selected to be rapid drying so that once the leak is located and repaired, the cable will quickly dry and be ready for re-use, in many cases as soon as the pipe repairs are completed.

### STRAP DIRECTLY TO THE PIPE - ELIMINATE DRIP TRAYS

TT1100-OHP is a distributed sensor that can be attached to the bottom of suspended piping with nylon tie-wraps. There is no need for a drip tray to bring water into contact with the sensor cable. The braided fiber jacket provides extra mechanical protection and strength for ease of installation in construction environments. TT1100-OHP is available in bulk lengths or pre-terminated in standard lengths. TT1100-OHP is compatible with all TraceTek instruments and software.

### CABLE CONSTRUCTION



Drawing not to scale

#### Diamond Controls Ltd.

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Registered company: 4113848

#### Contact

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### ORDERING INFORMATION

#### TT1100-OHP modular sensing cable with factory-installed connectors

Catalogue No.	Part No.	Product Description
TT1100-OHP-1M-PC	P000000812	3 ft (1 m) sensing cable
TT1100-OHP-3M-PC	P000000811	10 ft (3 m) sensing cable
TT1100-OHP-7.5M-PC	P000000810	25 ft (7 m) sensing cable
TT1100-OHP-15M-PC	P000000809	50 ft (15 m) sensing cable
TT1100-OHP-30M-PC	P000000808	100 ft (30 m) sensing cable
TT1100-OHP-50M-PC	P000000807	165 ft (50 m) sensing cable
TT1100-OHP-100M-PC	P000000806	328 ft (100 m) sensing cable

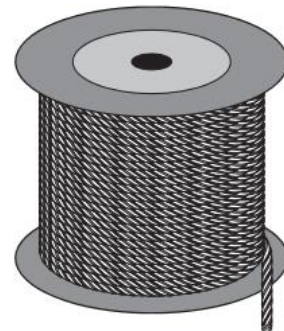
#### TT1100-OHP bulk sensing cable (connector kits required)

Catalogue No.	Part No.	Product Description
TT1100-OHP-SC	P000000805	Bulk sensing cable on reel Minimum length: 350 ft (75 m) Maximum length: 1000 ft (300 m)

#### Connector kits (not shown)

Catalogue No.	Part No.	Product Description
TT-1100-OHP-CK-PC-M/F	P000001186	Components for ten mated pairs of connectors

**Note:** Refer to the Product Selection Guide (H55869) for other components of the TraceTek system.



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## PRODUCT CHARACTERISTICS

<b>Cable diameter</b>	8.2 mm nominal
<b>Cable diameter with connectors</b>	23 mm nominal
<b>Signal wires</b>	2 x 26 AWG with fluoropolymer insulation
<b>Sensing wires</b>	2 x 30 AWG with conductive fluoropolymer jacket
<b>Core</b>	Flame retarded polymer
<b>Cable weight</b>	5.86 kg / 100 m nominal

## TECHNICAL INFORMATION

<b>Breaking strength</b>	>100 kg
<b>Cut-through force</b>	>50 kg (using 0.05" radius blade)
<b>Maximum continuous operating temperature</b>	80°C
<b>Resistance to humidity</b>	<2 µA leakage per 100 feet @ 90% RH / 20C

## APPROVALS AND CERTIFICATIONS

TraceTek TT1100 sensing cables are approved for installation in ordinary and hazardous areas when used in conjunction with approved TraceTek monitoring equipment and zener safety barriers when appropriate.

All TraceTek sensing cables are designated as "simple apparatus" and included in the approval certification for TraceTek monitoring instruments.

Consult the specific data sheets and approval certificates for the nVent RAYCHEM TraceTek TTSIM-128, TTSIM-1, TTSIM-1A, TTSIM-2, TTC-1 and TT-FLASHER-BE for application limitations and specific area approvals and certifications.



**Important:** All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application.

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