

# CYLON

## Immersion Temperature Sensors

**AKF106207 NTC10k, AKF1019207 NTC10k,  
Immersion pocket nickel-plated brass (THMS),  
Immersion pocket stainless steel (THVA)**

The Cylon Immersion Temperature Sensor range are duct-immersion temperature sensors, which with the associated immersion pockets are also suitable for temperature measurement in liquid fluids.



## Specifications

|                   |  |
|-------------------|--|
| Sensor Type       | 1x 10k3A1  |
| Temperature range | -50 to +150°   |
| Accuracy          | +/- 0.2 deg C from 0 to 70 deg                         |
| Shaft length      | 62mm, 135mm, 192mm, 465mm                              |
| Sensor bushing    | Ø7mm*, Stainless Steel                                 |
| Connection        | Terminal screws, max. 1.5mm <sup>2</sup>               |
| Housing           | Polyamide, Colour white                                |
| Connection head   | Material PA6, colour pure white, similar to RAL9010    |
| Protection        | IP65   |
| Cable entry       | Single entry,<br>M16 for wire conductor with max. Ø8mm |

## Norms and Standards

|               |  |
|---------------|--|
| CE-Conformity | 89/336/EWG Electromagnetic compatibility |
| Standards     | EN 60730-1: 2000                         |

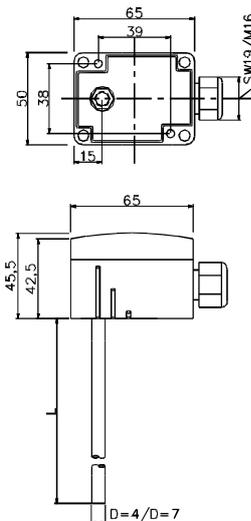
## Mounting Considerations

This sensor can be mounted on the ventilation duct either by means of a mounting flange or by screws.

To avoid condensation building up in the immersion pocket, the bushing must be installed in such a way as to allow any condensate to run off.

Optional Accessories

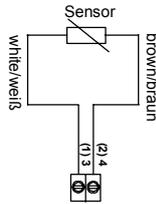
- (THMS) Immersion pocket for Ø=7mm, mat. brass nickel-plated, safe up to 16bar
- (THVA) Immersion pocket für Ø=7mm, mat.stainless steel, safe up to 40bar
- (MF7) Mounting flange for Ø=7mm



Due to Cylon's policy of continuous improvements these specifications may be upgraded without notice.

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### Terminal Connection Plan



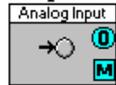
**Note:** To avoid self-heating, which can affect the accuracy of measurement, the wire current should not exceed 1mA.

### Application:

The following sample strategy shows how inputs from these sensors may be processed by UnitronUC32 Field Controllers

#### UC32.xx and UCU strategy

##### Temperature



Set the sensor type to 10K3A1

## ABOUT UNITRONUC32

Cylon sensors are part of the UnitronUC32 range of products, which offers the following benefits:

### Unique Flexibility with UniPut™ I/O

The UnitronUC32 range uniquely presents UniPut I/O, a revolutionary answer to flexible point configuration, offering maximized utilisation of controller capacity along with flexibility in strategy changes. Built on a modern, web-based architecture, the UnitronUC32 range has a wide application scope with the flexibility of being stand-alone or network enabled. Easily customisable, the UnitronUC32 range has optional internal or external keypads for a powerful yet user-friendly interface, matched by extensive monitoring and logging capabilities.

### Cost Effective, low entry point for building control.

The UnitronUC32 range offers reduced costs in terms of training, implementation, rollout and maintenance. Modular, extendible packages along with low installation costs mean a low entry point for building control. Advanced web based technology provides expanded facilities for maintenance personnel, while day to day access is offered via intuitive web pages. The future proof UnitronUC32 range provides forward & backward compatibility, meaning an effortless upgrade path for existing Unitron Systems.

### Highly programmable and extendable through web enabled HVAC technology

The UnitronUC32 range offers an advanced, web based, 32-bit architecture, with advanced programmability through the UnitronUC32 Engineering Centre. Inbuilt diagnostics along with expanded data logging and strategy storage is further enhanced by UniPut I/O, offering up to 8 Universal inputs, up to 8 UniPut connections (AI/DI/AO/DO) and up to 8 UniPut I/O with relays.



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