

# HOCHIKI ANALOGUE SENSORS RANGE INSTALLATION INSTRUCTIONS

**Products covered: Sensors - ACC-ASN, ATJ-ASN, ALN-ASN**

**Mounting Bases – YBN-R/3, YBN-R/3(SCI), YBO-R/SCI, YBO-BS, YBO-BSB, YBO-BSB2**

Other combinations of sensor and base are also possible. Please confirm with Hochiki or the appointed sales agent. Ensure that the following items are inspected before installation and maintenance. Hochiki cannot warrant a sensor's performance if such items are neglected.

## Caution

This sensor cannot be used to prevent FIRE itself, it is only intended to detect a certain characteristic of fire. When installing this sensor, ensure that the location of each sensor has been planned in accordance with appropriate local and National fire regulations or recommendations. The detector shall not be installed in the following environmental conditions:

- Situations in which condensation exists.
- Situations in which corrosive gases exist.
- Situations in which dust or steam exist.
- Situations in which obstacles exist, which could impede airflow to the detector.

Certain actions can cause permanent damage to the sensor and therefore if the sensor is subjected to any of the following actions it should not be used:

- Disassembly and reassembly.
- Impact or shock or drop.
- Touching the thermistors of the sensor (the thermistor is orange coloured and located inside the smoke chamber) – applicable only to the ACC and ATJ variants.

The sensor should therefore be replaced after a fire has occurred if damage is suspected. After installation, all sensors on the fire alarm system should be tested to verify correct operation. Installation and maintenance should only be carried out by suitably trained personnel.

The sensor must be subject to periodic maintenance during regular service visits, which should be as recommended by appropriate local and National Standards or recommendations. In the event of no such Standards existing, Hochiki recommend that the minimum period of maintenance should be 1 year and that the following items should be taken into account:

- In cases where there are excess built up of dust on the smoke chamber or the thermistors, the sensitivity of the sensor could be affected.
- A regular operational test should be performed.
- A visual check for staining and mechanical damage should be made.
- If the Testifire, Solo or an equivalent heat detector tester is being used to test the ACC/ATJ, please ensure that the main duct of the tester is aligned with one of the thermistors on the sensor, incorrect alignment could result in a failed test or damage to the sensor.

Sensor operation should not be verified by the use of a naked flame or open fire. Operation should only be checked by equipment that is capable of exceeding the required detection threshold by a small amount sufficient to guarantee a fire signal is produced by the sensor.

A dust cover is included fitted to the sensor to ensure that contamination cannot affect the correct operation for the sensor. The dust cover must be removed for the sensor to operate (only applicable for the ACC and ALN). The correct operation and function for each sensor must be checked during installation. Regular checks of each device's operation should be made to ensure that the system continues to operate correctly. Compliance with AS 7240.5 and 7240.7 is achieved at Table. 1 setting. Other settings do not comply with these standards.

**For Connection and use only with fire control panel manufacturer Kentec Electronics Ltd, models: Syncro AS, Taktis.**

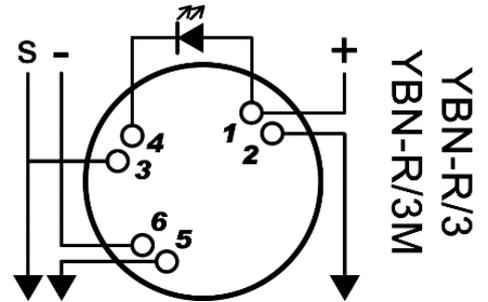
## Setting the Address

Each sensor must have its address set before system operation. Using the installation plan which shows the proper location for each sensor, find the address for the sensor to be installed. Ensure that the address and location on the plan match correctly.

Address is set to 127 as the factory default. For address setting, use the hand-held address programmer and write the number on the label of the sensor after setting. Address must be set within the address setting range of the connected panel. When changing the device address, replace the number on the label. See the instruction manual of the hand-held address programmer (TCH-B100/TCH-B200) for further details of address setting.

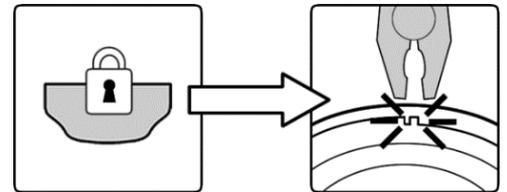
## Wiring

The wiring diagram for the standard analogue sensor base should be made as shown right. Refer to individual instructions for other base types



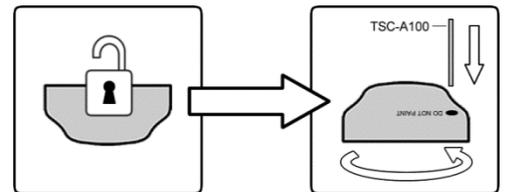
## Using the Sensor Tamper Lock

- ❑ Locate the sensor tamper lock tab on the underside of the device
- ❑ Using pliers snap off the tab
- ❑ Mount the sensor to the base bringing the alignment nibs on the casings inline for secure tamper locking.



## Removing a Locked Sensor

- ❑ Use the removal tool (TSC-A100) or a small flat-bladed screw driver and insert it into the larger hole on the outer case of the sensor.
- ❑ Push the tool down at the same time twisting the sensor counter-clockwise to release it from the base. Only use enough force to remove the sensor.



## Setting the Sensitivity

Please use mode of built in class setting, if panel has setting of class. Any setting outside of the table below has not been verified for conformance to AS7240.5 or AS7240.7.

Model Name	Smoke	Heat					
		Class	Setting	Class	Setting	Class	Setting
ACC-ASN	2.0-4.5%/m	A1	Fixed Temperature 60 °C			C	Fixed Temperature 88 °C
ATJ-ASN		A1	Fixed Temperature 60 °C	B	Fixed Temperature 78 °C	C	Fixed Temperature 88 °C
		A1R	Fixed Temperature 60 °C	BR	Fixed Temperature 78 °C	CR	Fixed Temperature 88 °C
		AIS	Fixed Temperature 60 °C	BS	Fixed Temperature 78 °C	CS	Fixed Temperature 88 °C
ALN-ASN	2.0-4.5%/m						



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