Fusion
Advanced

Axis AU

Axis-PU Programming Unit

This product permits to set and read various parameters stored in the devices of the analogue-intelligent and the enhanced conventional series family.

Connection to the devices is made through the adaptor base of the programming unit for the detectors or through one of the two plug-in cables (supplied with the product) for all other devices (only for the analogue-intelligent series).

The user can interact with the programming unit by using its in-built keypad and display; through this interface the user navigates through a menu-based set of options and commands, permitting him to program certain parameters on the devices or to read data from them.

Features

- Read and set an analogue address on a device

- Change a conventional or analogue temperature sensor from rate of rise to high temperature or vice versa

- Read the firmware version of a device and other data

- Activate or deactivate input or output channels on a multi-module device

- Programming a conventional zone module

- Program the operating mode on a 32 tones analogue base sounder or its audio-visual variant

Specification

Power supply battery specifications	6LR61 type, 9 V
Operating temperature range	from -30°C to +70°C
Maximum tolerated relative humidity	95% RH (no condensation)
Weight	200 grams

Order Codes and Options

Programming Unit
Axis-PU

More Information

Power Supply

The programming unit needs to be power supplied: for this purpose a 9V battery (supplied with the product) is needed. To install the battery into the programming unit follow these steps:

1 Slide-off the battery lodgment cover from the programming unit.

2 Connect the device's snap connector to the power supply battery.

3 Insert the battery into its lodgment.

4 Slide-in the battery lodgment cover onto the programming unit.

CONNECTING DEVICES TO THE PROGRAMMING UNIT

Only one device can be connected to the programming unit at a time. Depending on the device type, one of the three following ways of connection must be selected:

- Detector devices must be installed on the programming unit's adaptor base.

- Analogue 32 tones base sounders (and their audio-visual variants) must be connected to the programming unit with the supplied jack to jack cable (see picture 5A): insert one jack plug into the programmer's socket and the other jack into the sounder's lateral socket (see picture 6).

- All other devices (only analogue-intelligent) must be connected to the programming unit with the jack to female plug-in terminal block cable (picture 5B): insert the cable's jack pin into the programmer's socket and the cable's female plug-in terminal block into the device's analogue loop male socket (see picture 7 as an example and check the product's specific installation manual). Important note: avoid having a detector installed onto to the programming unit and another device connected through the cable: if this is done, the programming unit will give you false information.

You can notice that the 'jack to terminal block' cable is composed of two wires: one is positive (red color) and the other one is negative (black color). When inserting the plug-in female terminal block, check the corresponding polarity on the device's analogue loop male socket: positive polarity coincides with positive polarity and negative polarity coincides with negative polarity (see picture 8); in order to perform this operation you need to look at the polarity label on the device itself and its installation instructions manual.

Activating the Programming Unit

After having connected the programming unit to a device, press READ once; the programming unit's firmware version on the display. The programming unit's firmware version can be assessed only in this activation phase.
After this initial phase, the display will automatically visualise the address menu.

Address Menu

This menu is used to read and set the address of the connected analogue-intelligent device and it will work only on this type of device. This menu is accessible automatically at start up or from the main menu by pressing the READ key.

The Address caption will be visualised on the display, and under it a three digit number (indicating the actual address of the device) or a No Addr (no address if the device hasn't got an address).

When in this menu, by just clicking READ once, it is possible to read again the address of the connected device, performing a menu 'refresh' function.

By using the UP and DOWN keys, it is possible to increment or decrement the indicated number, and, after it is chosen, press the WRITE key to memorize it on the connected analogue device (address storing will fail if an enhanced conventional detector is connected!).

STORING WARNING

WHEN STORING A PARAMETER, DO NOT DISCONNECT THE DEVICE: THIS CAN DAMAGE IT IRREPARABLY.

THE MAIN MENU

From the address menu press the **READ** key for some seconds: **Family** caption will appear giving the user the following options, scrollable with the **UP** and **DOWN** keys:

Aurora : this option must be selected if an enhanced conventional detector is connected to the programmer; if selected, an enter test is made: if successful the main menu is visualised and if not, an error is visualised.

Vega : this option must be selected if an analogue-intelligent device is connected to the programmer; no enter test is performed, but the main menu will not work for a conventional sensor.

The main menu permits to view the data of the connected device and to perform certain setting operations on it.
Visualised data and available commands are not the same for all the devices, but the most of them are common.

A description of the possible menu options and visualised data will be given:

DevType : 'device type': under this caption, the programming unit will visualise the short name of the connected device type. Device type datum is visualised for every device.

Addr : 'address': this caption, followed by an analogue address number, indicates the device type associated to such address; is used only for multiple channel module devices and multi-modules, where, for each channel, its address and 'sub-device' type need to be visualised on the programming unit.

Stdval : 'standard value': depending on the device type connected, it indicates:

- If an analogue-intelligent device is connected, it indicates its 'analogue standard value': this is a common internal index for the analogue series devices. This value ranges from 0 to 255, but in normal condition is stable around 32; when the device is alarmed or activated, this value is set to 192.

Standard value datum is visualized for every analogue-intelligent device.

- If an enhanced conventional detector is connected, it indicates the 'photo value': this is a non standardised internal index and it is visualised only for conventional detectors having a smoke sensing feature.

ThrTyp : 'thermal type': indicates whether the thermal sensor, installed on the programming unit, is a a standard ROR (Rate Of Rise) or a high temperature one. By pressing the WRITE key, it is possible to access the sub-menu that permits to program the thermal operating mode (ROR or high temperature). Thermal type datum is visualised for enhanced conventional and analogue-intelligent detectors having a thermal sensing feature.

Dirty : indicates the pollution percentage present in the optical chamber of analogue-intelligent and enhanced conventional smoke and smoke-thermal detectors.

FrmVer : 'firmware version': indicates the version release number of the firmware loaded into the connected enhanced conventional or analogue-intelligent device. This datum is common to all enhanced conventional and analogue-intelligent devices.

PrdDate : 'production date': indicates the date (year and week) of firmware's programming into the connected device. Production date firmware datum is common for every enhanced conventional and analogue-intelligent device.

TstDate : 'test date': indicates the date (year and week) of the connected device's functional test in the producer's factory. Test date datum is common for every enhanced conventional and analogue-intelligent device.

Op Mode : 'operating mode': indicates a decimal value that, if programmed into certain analogue-intelligent devices, sets its functional operating characteristics.
Operating mode datum is visualised and used only for analogue multi-modules, conventional zone modules and analogue 32 tone base sounders and their audio-visual variants.

Set Mod / Set Op : 'set (operating) mode': when this caption appears, the pressing of the WRITE key permits to access the operating mode value selection sub-menu (with the Sel Op caption on the display).
Operating mode datum is visualised and used only for analogue multi-modules, conventional zone modules and analogue 32 tone base sounders and their audio-visual variants.

Customer : indicates the customer code security value programmed into the connected analogue-intelligent device.
Customer code value datum is visualised for all analogue-intelligent devices.

Battery : indicates the remaining battery's power supply percentage of the programming unit.
Battery datum is always visualised, even if the programmer is not connected to any analogue-intelligent device.