

# Address Unit **IC44 SS WP**

Part no. 5100782-00A

G015095

System: TS1000

## General Description

The addressable I/O control unit IC44 SS WP is designed to control and monitor external devices, such as fire doors, watermist, aerosols, HVAC etc.

The control unit is connected to a loop in the same way as other fire alarm loop units and can be used in harsh and corrosive environments.

The IC44 SS WP includes 4 inputs and 4 relay outputs (2-pole dry changing contacts). The inputs are designed to detect both active input, short and cable break.

The loop address of the IC44 SS WP is set by a DIP-switch.

This unit does not require an external 24 VDC separate power supply. High current consumers (i.e. proximity switches) on inputs may need external 24 VDC.



### NOTE!

The use of proximity switches requires external 24 VDC supply.

## Data

### Common data

|                            |  |
|----------------------------|--|
| Inputs                     | 4 inputs for closing contacts or NPN/PNP proximity switches. Local indication available. |
| Outputs                    | 4 pcs 2-pole relay contacts, max 30 VDC, 1A.   |
| Power output               | 24 VDC, 80 mA  |
| Loop nominal voltage       | 35 VDC   |
| Loop working voltage       | 22 - 38 VDC  |
| Loop current consumption   | 0.3 mA   |
| Input end of line resistor | 30k $\Omega$ (Included)  |

|                        |  |
|------------------------|--|
| Ingress protection     | IP66   |
| Relative Humidity      | $\leq 95$ % RH non-condensing  |
| Ambient temperature    | -40°C to +70°C   |
| Cable gland            | M20 for cable $\varnothing$ 6–13mm<br>Material: Nickel plated brass            |
| Cable terminals        | 2.5 mm <sup>2</sup>  |
| Material               | Enclosure: Stainless steel<br>AISI 304<br>Gasket: Polyurethane and<br>Silicone |
| Colour                 | Polished surface   |
| Weight                 | $\approx 1$ kg   |
| Certified according to | EN 50155   |

### Data for external 24 VDC

|                      |                          |
|----------------------|--------------------------|
| Nominal voltage      | 24 VDC                   |
| Working voltage      | 19 - 30 VDC              |
| Max current          | 100 mA                   |
| Nominal power output | 24 VDC, 80 mA            |
| Max load on inputs   | 15 mA per input. Pulsed. |
| Pulse length inputs  | 100 ms                   |

### Data without external 24 VDC (Loop powered)

|                      |                         |
|----------------------|-------------------------|
| Nominal voltage      | n/a                     |
| Working voltage      | n/a                     |
| Max current          | n/a                     |
| Nominal power output | n/a                     |
| Max load on inputs   | 5 mA per input. Pulsed. |
| Pulse length inputs  | 8 ms                    |

### DIP-Switches

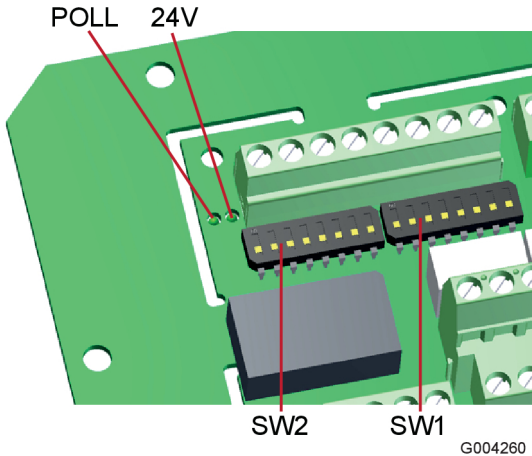


Figure 1. Location of DIP-switches and LEDs on the PCB

The following functions are set by the DIP-switches. (Use a pointed tool of suitable size.)

#### Address switch SW1

The loop address of the control unit is set by DIP-switch SW1.

### Terminals

Table 3. List of terminal connections

| Terminal |                | Connection   |              |
|----------|----------------|--|--------------|
|          | 1-12 and 47-50 | IN+  | Input 1 to 4 |
|          |                | IN-  |              |
|          |                | SIG  |              |
|          |                | IND *  |              |
| 13-16    | +              | External 24VDC input (18-36VDC). Optional.   |              |
|          | -              |  |              |
| 17       | A+             | Loop IN & Loop OUT   |              |
| 18       | A-             |  |              |
| 21-22    | +              | Isolated 24VDC output (for local indications), Max 5 mA for local indicators.<br><b>Note:</b> Only active when external 24VDC input is connected to 13-16. |              |
|          | -              |  |              |
| 23-46    | C              | Output 1 to 4  |              |
|          | NC             |  |              |
|          | NO             |  |              |
|          |                |  |              |

Figure 2. Label on PCB

\* Local output indication with external resistor; Max load 5 mA.

### Function switch SW2

The following functions are set by the switch SW2:

Table 1. ID for different operation modes set by SW2 DIP 1 to 5

| ID | Function               | Example                     |
|----|------------------------|-----------------------------|
| 1  | 2 inputs and 2 outputs | Emulates control unit CM-2x |
| 2  | 4 inputs and 4 outputs | Emulates control unit CM-4x |

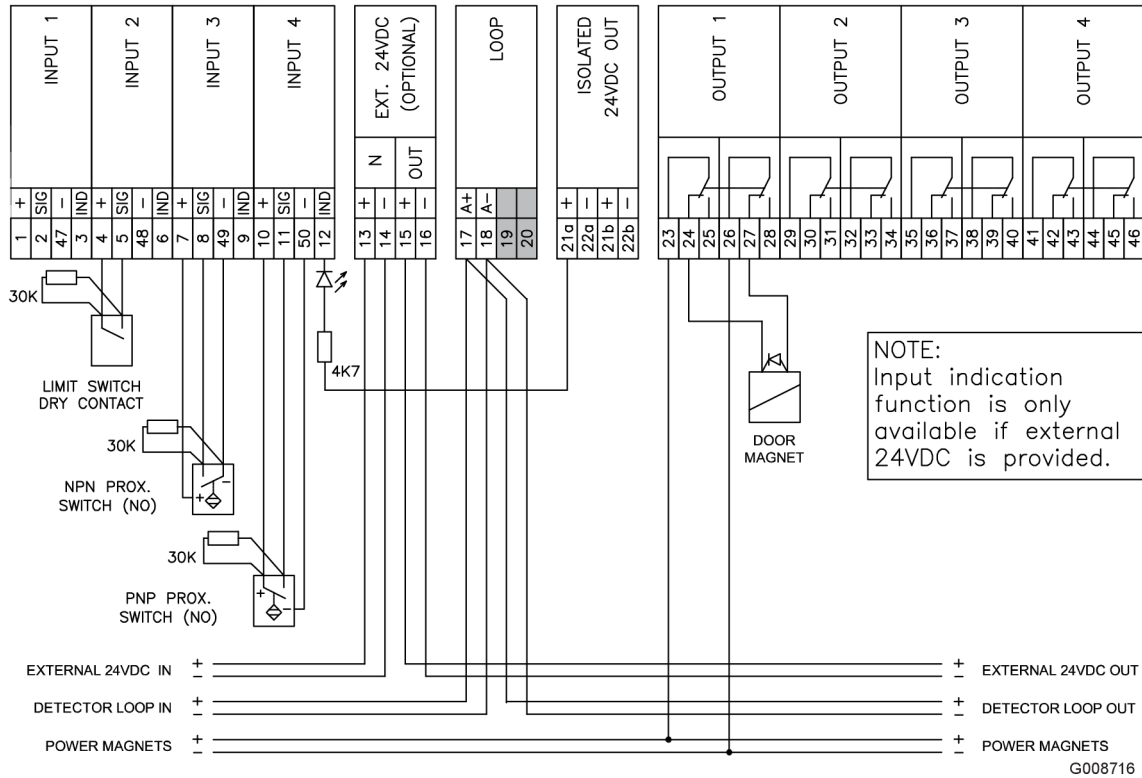
Table 2. Different functions set by SW2 DIP 6 to 7

| SW2 DIP no. | Function   |
|-------------|--|
| 6           | ON Must be set when external 24VDC power supply is used. |
| 7           | Not used   |



**CAUTION!**  
SW2 DIP 8 must always be ON!

### Connection Examples



### External earth connection

The external earth connection on the enclosure shall be connected to earth. For more information see the Installation & Commissioning manual.

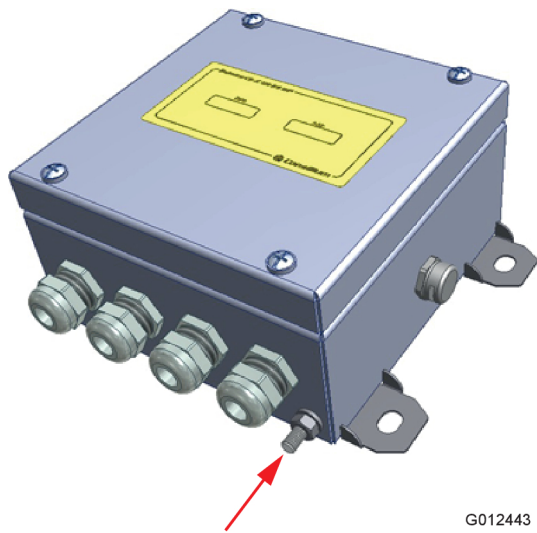
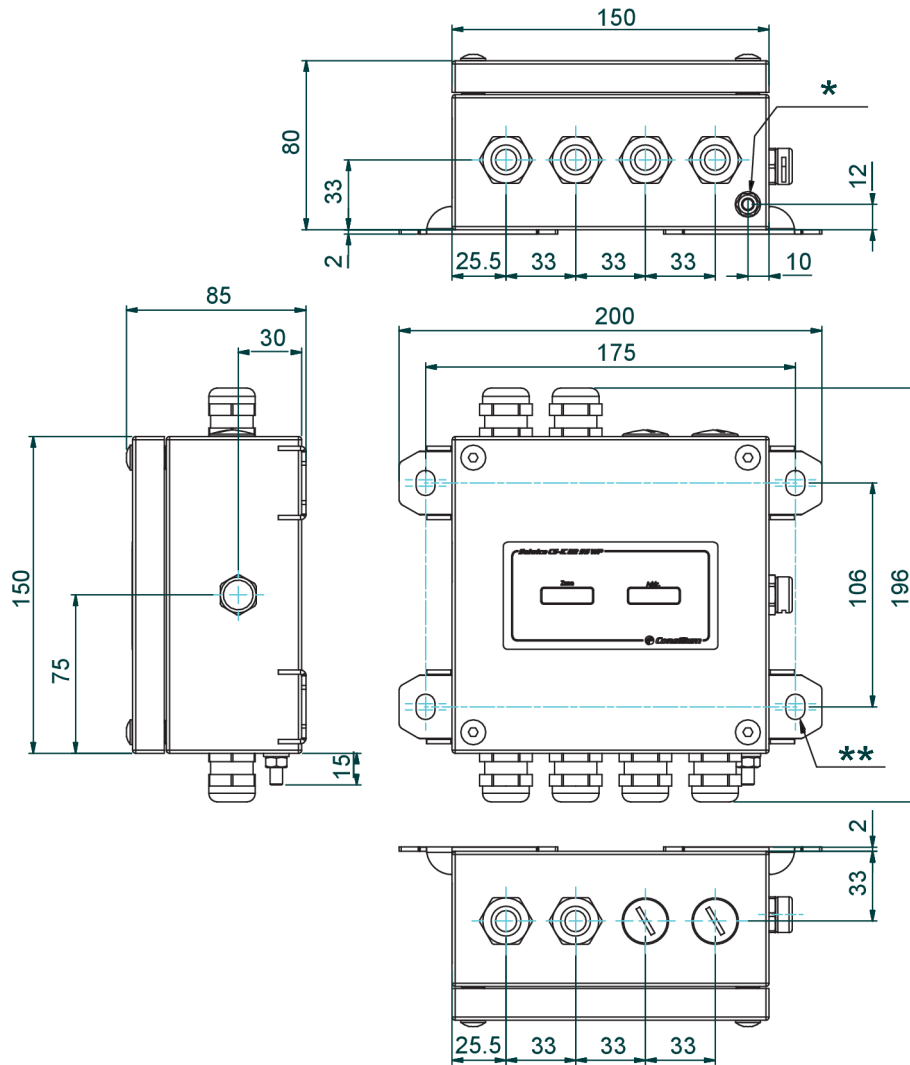


Figure 3. The M6 external earth connection

## Dimensions (mm)



G010412

\* M6 external earth connection

\*\* Holes for wall mounting (x4): Max screw thread M8

**CAUTION!**

Do not use electrical screwdriver.  
Maximum torque 2 Nm.