T 251
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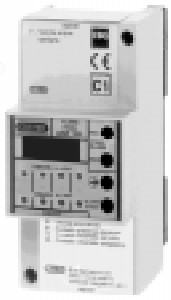
UNIT FOR ACQUISITION WATER AND FLUE GAS TEMPERATURES

C ←BUS

UAF 322 Eng. C1



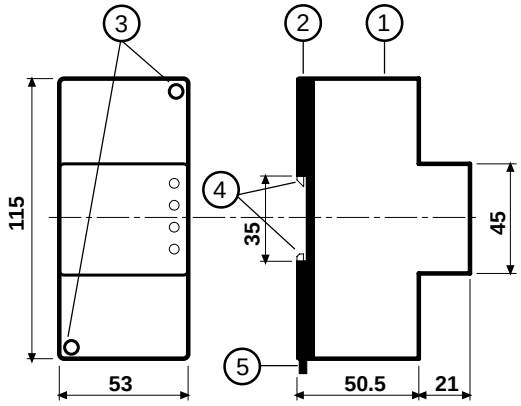
- **2 signals for water / ambient temperature (detectors NT 10 kΩ)**
- **2 signals for flue gas temperature (detectors Pt 1 kΩ)**
  - **– alarm signalling minimum temperature threshold**
  - **– alarm signalling maximum temperature threshold**
  - **– temperature display**
- **Communication systems:**
  - **– C-Bus** for telemanagment
- **Power supply 230 V~ , DIN rail mounting**

CE

1. APPLICATION

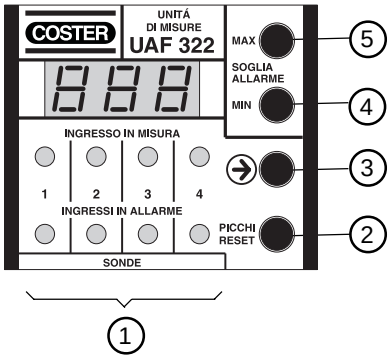
It can be used on its own in plants to monitor temperature. By setting some minimum and maximum temperature thresholds it is possible to operate a remote reading and modification of data via a C-Bus network.

2. OVERALL DIMENSIONS



1 – protective cover for electronic components
2 – base with transformer and terminal blocks
3 – screws for securing cover-base
4 – DIN rail securing elements
5 – DIN rail release lever

3. FACIA



1 - signaling alarm and status
2 - display minimum and maximum values
3 - selecting detector or address-setting key
4 - setting key for minimum temperature threshold
5 - setting key for maximum temperature threshold

4. TECHNICAL DATA

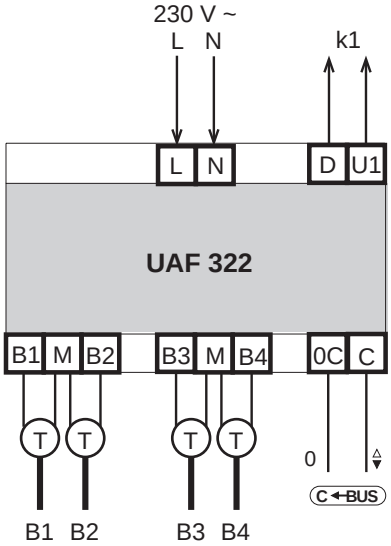
Power supply	230 V~ ± 10%
Frequency	50 to 60 Hz
Consumption	2 VA
Protection	IP40
Radio disturbance	VDE0875/0871
Vibration test	with 2g (DIN 40 046)
Construction standards	Italian Elecrotech. Comm. (CEI)
Case	DIN 3E module
Mounting	DIN 35 rail
Materials:	
base	NYLON
cover	ABS

Ambient temperature:	
operation	0 to 45 °C
storage	– 25 to + 60 °C
Ambient humidity	class F DIN 40040
Measurement range:	
detectors NT 10 kΩ	0 ... 99,5 °C
detectors Pt 1 kΩ	0 ... 500 °C
Weight	0.27 kg
Alarm signalling	by closed contact

5. INSTALLATION

The appliance must be installed in dry ambients, in conformity to the ambient limits given in TECHNICAL DATA. If placed in ambients classified as 'dangerous', it must be installed in enclosures for electrical apparatus constructed according to the regulations for the danger class involved.
It can be installed on DIN rail or in a DIN modular enclosure.

6. WIRING DIAGRAM



L – Line 230 V~
N – Neutral
k1 – Input alarm contact to be connected to terminals D and E1/E2/E3 of the equipment C-Bus
C-Bus – Transmission data by telemanagment
B1/ B2 – Temperature detectors (NT 10 kΩ water/ambient)
B3/ B4 – Temperature detectors (Pt 1 kΩ lue gas)

7. WIRING

Proceed as follows:
- Separate base and cover
- Montare la base sul profilato DIN e controllare che i ganci (2.4) keep it firmly in place
- Carry out wiring according to the above diagram, in observance to current regulations and using the following cable types:
  – 1.5 mm² for power supply
  – 1 mm² for detectors and alarm contact
  – 1 mm² for C-Bus; see technical data sheet T021 for restrictions on cable length
- Switch on power (230 V~) and check voltage across terminals L and N
- Switch off power - replace cover on base/terminal block and ensure it with the 2 screws (2.3) supplied.

WARNING : the contact (k1) must be connected to a Coster C-Bus equipment, to terminals D - E1, D - E2 or D-E3 (eg. DTE611, DTE 600, DTE 602, DTR 684, DRU 614 and so on).

You are advice not to insert more than two cables in a single terminal of the UAF 322. If necessary make use of a junction box.

8. OPERATION

For each imput of the UAF 322, it is possible to programme:
- Real temperature measured by the detectors. Press key (3.3) : at each press the value shown in the display changes and the coresponding led is switched on.
- Maximum and minimum detectors values: press key (3.2),The minimum and maximum values reached by the measurement are displayed alternatively. To zero the two values keep the key press for 10 seconds, till you see three dashes.
- Maximum and minimum alarm values setting: press key (3.4) for the minimum value and the key (3.5) or the maximum one.To change such values press the corresponding key (min. or max.) for 5 seconds.When three dashes appear in the display release the key and then press it again to read the alarm threshold which can be modify if you keep on pressing the key. To esclude the limit press the corresponding key till the dashes appear in the display. Release it and wait for about 10 seconds till display of the measured temperature (cut out limit will show 'OFF' in the display).
- C-Bus address setting: press key (3.3) for more than 10 seconds. The display will show the present address. By releasing the key three dashes will appear in the diplay. By pressing the key again you will see three zero in the display. Values can be increased by pressing the key. Once the desired value has been reached, do not press any key for 5 seconds: the desired address will then be acquired and the controller will go back to its normal function.

From the telemanagment PC it is possible to set:
– delay in acquisition of alarm (from 0 to 255 minutes)
– possibility of sending an alarm signal when a programmed limit has been reached.
– password for telemanagement
– location of the plant

From telemanagment PC, for each single input, it is possible to:
– zero the maximum and minimum values reached by measurements
– azzerare i valori minimo e massimo raggiunto dalle misure
– input identification (eg flow detector/room detector / flue gas detector)

- UAF 322 address factory setting : 8

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