Electrical Connection

Plug M 12 x 1, 4-pin	Model with 2 switching outputs (DESINA®)	Model with 2 switching outputs and 1 analog output
Pin 1	+Ub (15...32 V DC)	+Ub (15...32 V DC)
Pin 2	SP2 (0,5 A max.)	analog
Pin 3	0 V	0 V
Pin 4	SP1 (0,5 A max.)	SP1 (0,5 A max.)
Pin 5		SP2 (0,5 A max.)

Sensor Connection UAS 7

M 12 x 1

1 = +Ub
2 = Signal
3 = –Ub (*)

Analog measuring input
Optional:
Current input : 4...20 mA
Voltage input : 0...10 V DC

(*) in combination with 2-wire circuit pin 2 is not needed.

Barksdale
CONTROL PRODUCTS

Item-No.: 923-1407
Index A, 01. 06. 2006 Software version: V1. or higher
Specifications are subject to changes without notice.

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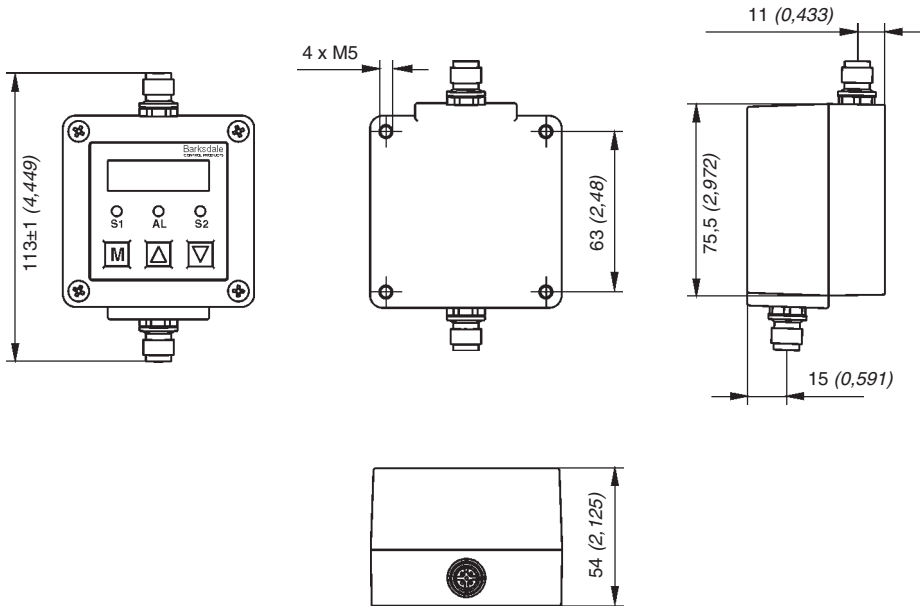
Operating Instructions Electronic Display Type UAS 7

Dimensions in mm *(inch)*

UAS 7



1. Product Description

Intended applications
- The electronic display is a device to monitor system pressure, temperature, flow, level, etc. and has two switching outputs and one analog output.
- The electronic display is only to be connected to input signals according to the values on the type label t the bottom side of the device.
- **Attention:** This device is not designed to be used as the only safety relevant element in pressurized systems according PED 97/23/EC.

2. Starting Operations

- The pressure switch should be installed and operated only by authorized personel.
- For wall mounting there are four threads M4 on the back side. To damp strong vibrations shock mounts must be used.
- Connect the sensor and the UAS 7 with the 4-pin plug M 12 x 1 at the bottom side of the device.
- The electrical connection (supply, analog output and switching contacts) must be carried out according to the connection table on the top of the device.
- The electrical connection must be carried out in accordance with the VDE 0100 regulations.

List of functions

Dialog item	Value	Description
ACt		Actually displayed measuring value
S 1	mbar, bar, psi. text, etc.	Select the measuring unit. "text" allows the display of the unit stored in the "STXT" menu. nbar, bar, nPa, PS 1, PSI*, C, F, StXt
StXt	ABCD..., 1234...	Store any desired text: AbCd... 1234...
Und	On, OFF	Activation of the unit display on oFF
SP 1	Std win Err	Std = Standard decreasing / increasing u in = Window technology Err = Error evalutaion
on 1	0...xxx	Switch-on point for SP1; set the ON-value lower than the OFF-value for decreasing switch point evaluation
OF 1	0...xxx	Switch-off point for SP1
dS 1	0,0 s...9,9 s	Switch-on delay for SP1
dr 1	0,0 s...9,9 s	Switch-off delay for SP1
Inv 1		HLFS = High-level-fail-save (normally open function) LLFS = Low-level-fail-save (normally closed)
SP2	Std win Err	Std = Standard decreasing / increasing u in = Window technology Err = Error evalutaion
on2	0...xxx	Switch-on point for SP2; set the ON-value lower than the OFF-value for decreasing switch point evaluationg
OF2	0...xxx	Switch-off point for SP2
dS2	0,0 s...9,9 s	Switch-on delay for SP2
dr2	0,0 s...9,9 s	Switch-off delay for SP2
Inv2		HLFS = High-level-fail-save (normally open function) LLFS = Low-level-fail-save (normally closed)
AOS	0...xxx	Scaling the analog output start-value (e. g.: 0 bar = 4 mA)
AOFS	0...xxx	Scaling the analog output end-value (e. g.: 400 bar = 20 mA) (Start-value of the output signal is always the display start-value, e. g.: 0 bar = 4 mA), max. turn-down 4:1,that means the analog output is switched off at values below 25% of the measuring range.
nAH	0...xxx	Display of peak value "MAX" (xxx: = max. 125% f. s.)
CLr		no = no deletion YES = deletion of the value

List of functions

Dialog item	Value	Description
Err		Error messages: OH = no error nAH = pos. MB-Überschreitung n In = neg. MB-Überschreitung SEn = Sensor error SP 1 = Error switching output 1 SP2 = Error switching outpu 2 dAt = Data error (EEProm) Pr6 = Microcontroller error CAL = Calibration error ano = Error analog out
Fnt	0000...0000	Select the decimal places in the display
nOn	0...xxx	Scaling the start-value in the measuring display
nOnH	0...xxx	Scaling the end-value in the measuring display

Note: When changing the units the parameters for setpoints and analog output have to be updated manually.

* PSI = psi / 10

4. Operation

After the unit is switched on, the unit starts an automatic self-test. The device is menu operated and configured by the three keys on the front. With the „M“ key (= mode) you change between the operation/ indicating level and the menu. With the keys "⇑" = up and "⇓" = down you select the dialog items.
A change of any configuration starts always with the M-key and is indicated by the flashing cursor. After a change has been made with the "up"- resp. "down"-key the M-mode key must be pressed to save each configuration; to set numbers "digit by digit“, each digit has to be entered and confirmed with the M-Mode before adjusting the next one. By confirming the last digit the new configuration will be saved in the memory.
To finish programming from any point in the menu and return to the operating mode press the M-key for five seconds.
If the dialog is not continued within two minutes the device automatically returns to the measuring mode.

5. Key lock

Activating the "⇑" = up and "⇓" = down keys together for more than 5 seconds will block any changings in all menues, shown by "LOCK“ = locked the display. Repeating this action will unlock the configuration menu and the display shows "UNLK“. In the "LOCK" mode, all configuration values can be checked only, but not changed.

6. Error handling

The internal self-check software will monitor the proper functioning of the unit. Any failures will be indicated with a flashing yellow LED.

Display	Error		Cause
max	Positive excess of the measuring range		Measured value exceeds the max. of the range
min	Negative excess of the measuring range		Measured value is lower than the min. of the range
anao	Failure of the analog output		Output loop is not closed or short circuited
sens	Sensor error	(internal)	Pressure sensor overcharged or defect
data	Data error (EEProm)	(internal)	Memory failure
prog	Program error	(internal)	Microcontroller failure
cal	Calibration error	(internal)	Faulty calibration data

Menu Structure UAS 7