

Electronic Display

Type UAS7

Trip amplifier for all physical quantities with digital display,
2 switching outputs and
1 analog output,
Linearity error 0.2 % f. s.

Features

4-digit 7-segment LED display, microprocessor-controlled, self monitoring, all parameters are configured by Keypad, display unit selectable, adjustable keypad lock, high accuracy, quick scanning rate (1 ms)

Display range

freely scalable: -9,999...+9,999

Applications

OEM applications,
Hydraulics and pneumatics,
test bed and apparatus engineering,
heavy industry

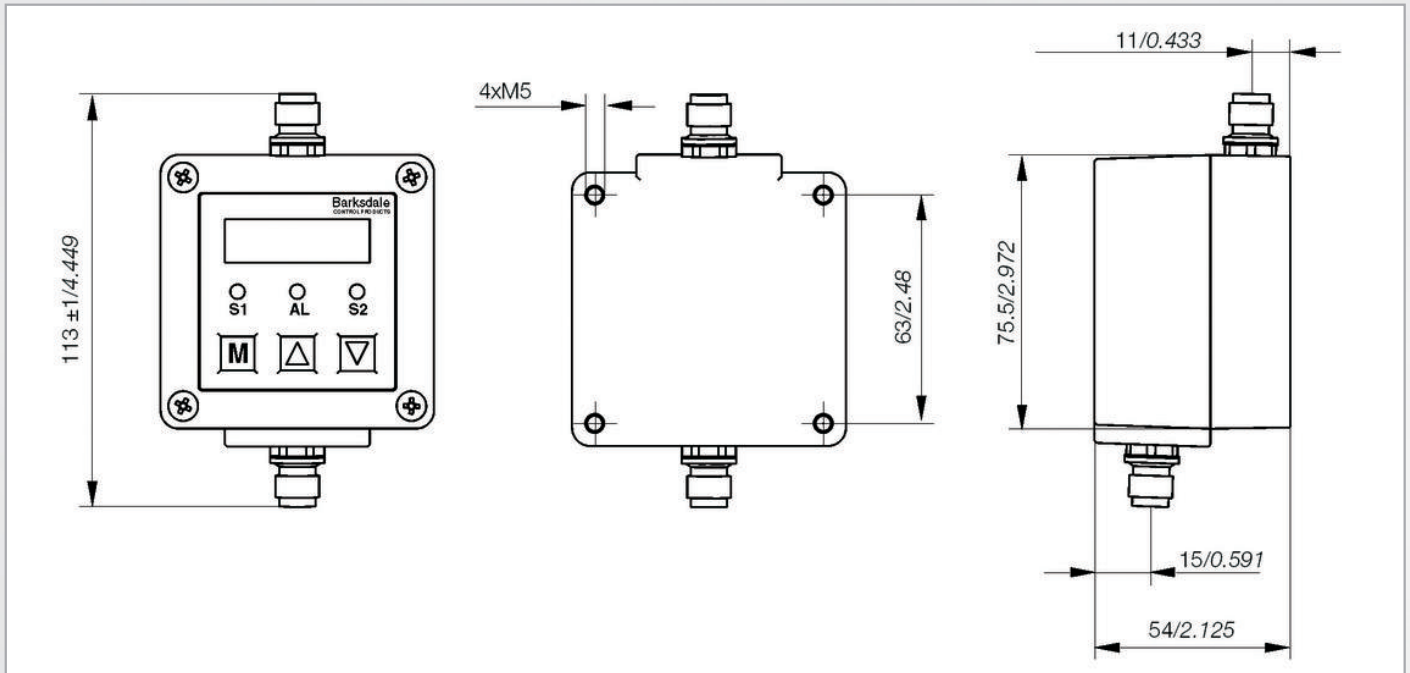


Technical Data

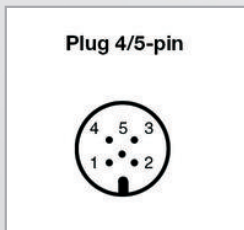
Measuring principle:	Amplifier with 10 bit A/D converter
Materials:	
Electronics housing:	Aluminum die-cast
Housing seal:	NBR
Keypad:	Polyester
Operating elements:	Keypad with easy-response pushbuttons
Protection system/class	IP65 / III
Dimensions:	75 x 75 x 55 mm (W x H x D)
Weight:	approx. 330 g
Analog measuring inputs:	
Current input:	4... 20 mA
Voltage input:	0... 10 V DC
Linearity error:	< ±0.2 % v. f. s. at 25 °C
A/D converter:	
Resolution:	10 bit (1024 steps per measuring span)
Scanning rate:	200 / s
On-status display:	4-digit 7-segment LED display, red, digit height 10 mm
Display range:	-9,999... +9,999
Display rate:	2 / s
Display unit:	all technical units
Sensor connection:	Plug M12 x 1, 4-pin
Electrical connection:	Plug M12 x 1, 4-pin or 5-pin

Temperature influence:	< 0.05 % v. f. s. / 10K
Compensation range:	-10 °C... +70 °C
Repeatability:	≤±0.05 % v. f. s.
Temperature range:	
Electronics:	-10 °C... +70 °C
Storage:	-30 °C... +80 °C
Power supply:	15... 32 V DC, reversed polarity protected (SELV, PELV)
Power consumption:	approx. 50 mA (without load)
Analog output:	
Current output:	4...20 mA
Load:	max. RI = (Ub-12 V) / 20 mA RI = 600 Ohm at Ub = 24 V DC
Load influence:	0.3 % / 100 Ohm
Scanning rate:	5 ms
Voltage output:	0...10 V DC
Rating:	max. 10 mA
Adjustment range:	25 %... 100 % f. s.
Transistor switching outputs PNP:	
Switching function:	Normally open / normally closed, standard / window mode and diagnosis function adjustable
Adjustment range:	0 %... 125 % f. s.
Switching frequency:	max. 100 Hz
Current rating:	max. 500 mA, short-circuit proof
Delay:	0.0 s ... 9.9 s adjustable
Status display(s):	LED(s) green
Accessories:	Plug connector

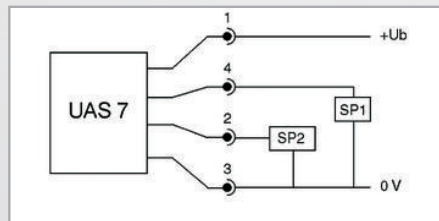
Dimensions (mm / inch)



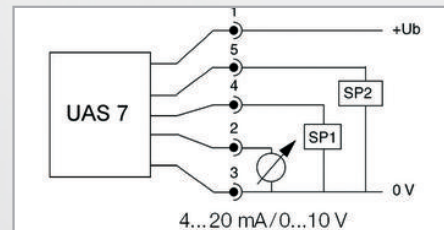
Plug



Connection Diagram 1



Connection Diagram 2



Sensor

M12 x 1

1 = +Ub
2 = Signal
3 = -Ub (*)

Analog measuring input

Optional:
Current input: $4 \dots 20 \text{ mA}$
Voltage input: $0 \dots 10 \text{ V DC}$

(*) Pin 2 is not needed with 2-wire connection.

Order Numbers

Electronic trip amplifier with 2 PNP outputs		
Analog Input	Analog Output	Order Number
$4 \dots 20 \text{ mA}$	---	0001-004
$4 \dots 20 \text{ mA}$	$4 \dots 20 \text{ mA}$	0001-002
$4 \dots 20 \text{ mA}$	$0 \dots 10 \text{ V}$	0001-003
$0 \dots 10 \text{ V}$	---	0001-007
$0 \dots 10 \text{ V}$	$4 \dots 20 \text{ mA}$	0001-005
$0 \dots 10 \text{ V}$	$0 \dots 10 \text{ V}$	0001-006