

## Electronic Trip Amplifier

**UAS3 Series**

### Features

- ▶ Integrated trip amplifier
- ▶ 12-bit analog-digital converter
- ▶ For pressure, temperature, level and flow
- ▶ Monitors and controls any sensor with analog output
- ▶ Ideal companion to our 400-series pressure transducers
- ▶ Four switchpoints in a single, compact unit
- ▶ Easy-to-read LED display with scalable bar graph
- ▶ UL/CSA approved

### Applications

- ▶ OEM-applications in hydraulics and pneumatics
- ▶ Test bench
- ▶ Industrial machinery

### General Specifications\*

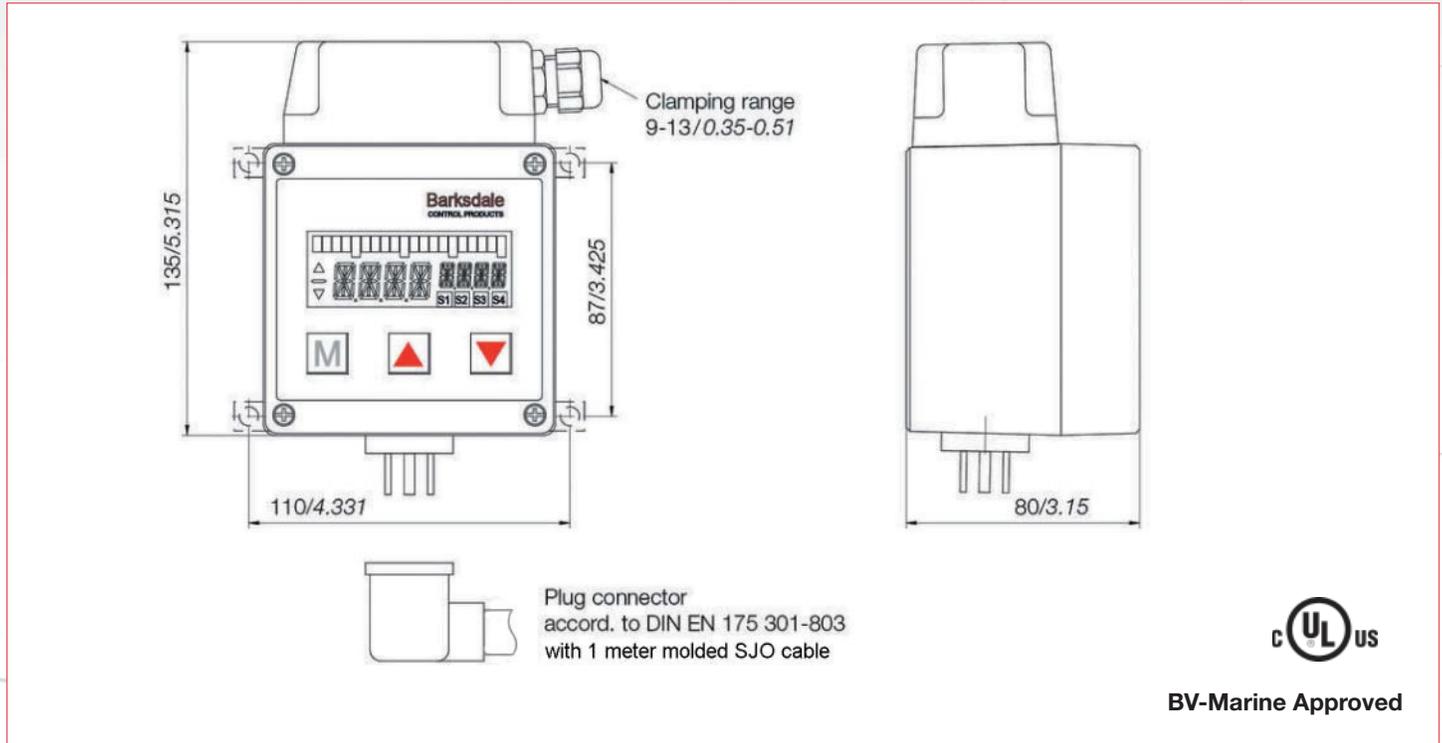
<b>Accuracy:</b>	0.2% f. s.
<b>Linearity Error:</b>	±0.2% f. s. at 77°F (25°C)
<b>Repeatability:</b>	±0.01% f. s.
<b>Material:</b> Housing (Electronics): Seal (Housing): Keypad:	Cast aluminum Neoprene® Polyester film
<b>Measuring Ranges:</b>	(free scalable): -9999 to +9999
<b>Measuring Principle:</b>	Amplifier with 12 Bit A/D-converter
<b>Electrical Connection:</b>	Plug-in, terminal strip with 14 slots for 1.5mm <sup>2</sup> , 14 AWG slots
<b>Sensor Connection:</b>	Plug 3-pin acc. to DIN 43650 / meter including electrical plug with molded cable
<b>Cable Gland:</b>	1 x PG 13.5 side entry - standard
<b>Power Supply:</b>	18 - 30 VDC, reversed polarity protected
<b>Power Consumption:</b>	appr. 350 mA at Ub = 24 VDC (without load)
<b>A/D-Converter:</b> Resolution: Scanning Rate:	12 bit (4096 steps per measuring span) 1000 / s
<b>Analog Inputs:</b> Current Input: Voltage Input: Resistance Input: Temperature:	4 - 20 mA 0 - 10 VDC 0.5 - 100 kOhm PT100 element acc. to IEC751
<b>Analog Output:</b> Current Output: Load:  Load Influence: Scanning Rate:	4-20 mA max. RI = (Ub-12 V) / 20 mA RI = 600 Ohm at Ub = 24 VDC 0.3% / 100 Ohm 1 ms



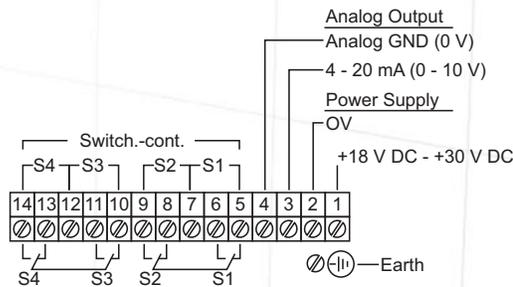
<b>Analog Output (Cont.):</b> Voltage Output: Rating: Adjustment Range:	0 - 10 V DC max. 10 mA, short circuit-proof 25% to 100% f. s.
<b>Switching Output(s):</b> Contact Rating:  Cycles: Switching Rate: Delay: Operation Time: Status Display:	max. 120 VDC / 250 VAC max. 120 W / 1250 VA 1 million at 24 VDC / 2 A max. 20 / s 0 - 9.9 s adjustable 1 mS S1 to S4 on LED display
<b>Digital Display:</b>  Bar Graph: Display Range: Display Rate: Display Unit:	8-digit 14-segment LED display, height 1/2 in (12 mm)  20-segment -9999 to +9999 (scalable) 4/S psi / bar / kPa / °C / °F
<b>Operating Elements:</b>	Keypad with easy response push buttons
<b>Temperature Range:</b> Electronics: Storage:	14° to 158°F (-10 °C to + 70 °C) -22° to 176° F (-30°C to + 80°C)
<b>Temperature Influence:</b>	±0.05% f. s. / 10K
<b>Compensation Range:</b>	14° to 158°F (-10° to +70°C)
<b>Protection Class:</b>	IP65
<b>Dimensions (Housing):</b>	3-15/16 W X 5-5/16 H X 3-3/16 D (100 W X 135 H X 80 D)
<b>Additional Features:</b>	8-digit 14-segment LED display with bargraph and trend indication, microcontroller-controlled, self monitoring, all parameters are configured by keypad, selective keypad lock, high accuracy, quick scanning rate (1 ms).
<b>Weight:</b>	appr. 2 lb (1080 g)

\* See product configurator for additional options.

## Technical Drawings

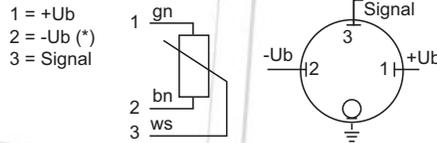


## Electronic Connections



## Sensor Connections

According to DIN 43650



\* Pin 2 is not needed with 2-wire connection.

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

## Product Configurator

Example	UAS3	-5	-6
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\* Highlighted options represent those most frequently used. Select these common options for improved availability. (5/21)

### Base Model

UAS3

### Input Options

-5	4-20 mA analog input
-6	0-10 VDC analog input

### Output Options

-4	Four switchpoints with no analog output
-5	Four switchpoints with 4-20 mA analog output
-6	Four switchpoints with 0-10 VDC analog output