

Attachable indicator for transmitters

Art. No. 102756 Type No. 894.20 AC 80.07_e

Accessories

Attachable indicator for transmitters Model A-Al-1, standard version Model A-IAl-1, Ex version

WIKA data sheet AC 80.07



Applications

- Plant construction
- Machine tools
- Test benches
- Level measurement
- General industrial applications

Special features

- Indication range: -1999 ... 9999
- Attachable to transmitter with 4 ... 20 mA output and angular connector per DIN 175301-803 A
- Scalable on site without external tools
- Ingress protection IP65
- Ex versions Ex ia IIC/IIB T4 Gb, Ex ib IIC/IIB T4 Gb (model A-IAI-1)



Attachable indicator model A-Al-1

Description

The model A-Al-1 and A-IAl-1 attachable indicators are the ideal solution for an on-site display with simultaneous signal transmission.

Due to its open programmability and easy installation, even for transmitters already in service, the attachable indicator can be easily and quickly added without difficulty. An additional power supply is not necessary. An additional power supply is not necessary.

The instrument is configured using three buttons which are located under the front cover. A logically structured menu guides the operator through all the necessary programming steps using simple characters on the LCD panel. It is possible to set the indication range and both offset and slope correction. In addition, if required, a filter can be activated and set in various stages. The filter suppresses short spikes and thus enables the easy readability of the display.

All programmed parameters are stored in an EEPROM and are preserved in the event of power outage.

The model A-IAI-1 attachable indicator has been developed specifically for use in hazardous areas. This attachable indicator can be combined with Ex transmitters and also with a repeater power supply (e.g. model IS Barrier) or an Ex galvanic isolator, thus enabling its use in zone 1 areas.

The attachable indicator has its own integrated self-diagnostics, which continuously monitors that the key components of the instrument are working properly. The integrated self-diagnostics, as well as the reporting of an over-range or under-range condition, ensure high operational safety.

With its robust and compact plastic case, the attachable indicator fulfills the ingress protection IP65 and is thus exceptionally suitable for a wide range of industrial applications.

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Specifications

Attachable indicator model A-AI-1

Principle 7-segment LCD, 4-digit, character size 10 mm Indication range -1999 9999 Accuracy ± 0.2 % of measuring span ± 1 digit Measuring rate 5 measurements/s Voltage supply Electrical connection To transmitter with 4 20 mA output and angular connector per DIN 175301-803 A Power supply Not required, since the attachable indicator is powered by the 4 20 mA loop	Attachable indicator	
Indication range -1999 9999 Accuracy ± 0.2 % of measuring span ± 1 digit Measuring rate 5 measurements/s Voltage supply Electrical connection To transmitter with 4 20 mA output and angular connector per DIN 175301-803 A Power supply Not required, since the attachable indicator is powered by the 4 20 mA loop	Display	
Accuracy ± 0.2 % of measuring span ± 1 digit Measuring rate 5 measurements/s Voltage supply Electrical connection To transmitter with 4 20 mA output and angular connector per DIN 175301-803 A Power supply Not required, since the attachable indicator is powered by the 4 20 mA loop	Principle	7-segment LCD, 4-digit, character size 10 mm
Measuring rate 5 measurements/s Voltage supply Electrical connection To transmitter with 4 20 mA output and angular connector per DIN 175301-803 A Power supply Not required, since the attachable indicator is powered by the 4 20 mA loop	Indication range	-19999999
Voltage supply Electrical connection To transmitter with 4 20 mA output and angular connector per DIN 175301-803 A Power supply Not required, since the attachable indicator is powered by the 4 20 mA loop	Accuracy	± 0.2 % of measuring span ± 1 digit
Electrical connection To transmitter with 4 20 mA output and angular connector per DIN 175301-803 A Power supply Not required, since the attachable indicator is powered by the 4 20 mA loop	Measuring rate	5 measurements/s
Power supply Not required, since the attachable indicator is powered by the 4 20 mA loop	Voltage supply	
	Electrical connection	To transmitter with 4 20 mA output and angular connector per DIN 175301-803 A.
Voltage drop approx. DC 2 V	Power supply	Not required, since the attachable indicator is powered by the 4 20 mA loop
	Voltage drop	approx. DC 2 V
Permissible current carrying capacity max. 40 mA	Permissible current carrying capacity	max. 40 mA

Case		
Material	ABS, front panel from polycarbonate	
Ingress protection	IP65 per EN 60529	
Dimensions	48.5 x 48.5 mm	
Weight	approx. 80 g	

Permissible ambient conditions		
Operating temperature	050°C	
Storage temperature	-20 +70 °C	
Relative humidity	< 80 % r.h. non-condensing	
Temperature effect on the indication	0.1 % / 10 K	

Approvals

Logo	Description	Country
C€	EU declaration of conformity ■ EMC directive ■ RoHS directive	European Union

Approvals and certificates, see website

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Attachable indicator for transmitters

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Specifications

Attachable indicator model A-IAI-1, Ex version

Attachable indicator		
Display		
Principle	7-segment LCD, 4-digit, character size 10 mm	
Indication range	-1999 9999	
Accuracy	± 0.2 % of measuring span ± 1 digit	
Measuring rate	5 measurements/s	
Voltage supply		
Electrical connection	To intrinsically safe transmitter with 4 20 mA output and angular connector per DIN 175301-803 A.	
Power supply	Not required, since the attachable indicator is powered by the 4 20 mA loop	
Voltage drop	approx. DC 3 V	
Permissible current carrying capacity	max. 25 mA (40 mA short term)	

Case	
Material	ABS, front panel from polycarbonate
Ingress protection	IP65 per EN 60529
Dimensions	48.5 x 48.5 mm
Weight	approx. 80 g

Permissible ambient conditions	
Operating temperature	-20+50 °C
Storage temperature	-20 +50 °C
Relative humidity	< 80 % r.h. non-condensing
Temperature effect on the indication	0.1 % / 10 K

Safety-related maximum values	
Power supply	U _i = DC 9 28 V
Short-circuit current	l _i = 100 mA
Power limitation	P _i = 1,200 mW
Maximum effective internal capacitance	Ci < 13 nF
Maximum effective internal inductance	negligibly small

Approvals



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Approvals and certificates, see website

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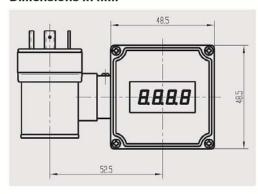
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Dimensions in mm



Electrical connection

PIN assignment 4-pin angular connector per DIN 175301-803 A



Scope of delivery

- Model A-Al-1 attachable indicator, standard version or model A-IAl-1 attachable indicator, Ex version
- Blue profile sealing
- Fastening screws (68 mm and 75 mm)
- Operating instructions

Ordering information

Model	Ordernumber
A-AI-1, standard version	7082534
A-IAI-1, version with explosion protection (II 2G Ex ia/ib IIC/IIBT4)	7148512

Ordering information

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To order the described product the order number is sufficient. Other options require additional specification.

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The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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