

Attachable Indicator for Transmitter Model A-AI-1 and model A-IAI-1

WIKA Data Sheet AC 80.07

Applications

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

Special Features

- Display range -1999 ... 9999
- Attachable to transmitter by means of L-plug according to DIN 43 650 and output 4 ... 20 mA
- Fully adjustable on site without master instrument
- Ingress protection IP 65
- Explosion protection II 2G EEx ib IIC T4 (model A-IAI-1)



Attachable Indicator Model A-AI-1

Description

The attachable indicator model A-AI-1 or A-IAI-1 provides an ideal solution for a local read-out with simultaneous signal transmission.

Due to its universal programmability and simple mounting it is possible to retrofit the attachable indicator even to transmitter which are already in use. No extra power supply is required.

The indication range can be adjusted by means of flush-mounted keys below the front cover. The operator is guided through all steps of the program required by a logically arranged menu with simple characters on the LCD display.

With the help of two selectable filters the "jumping" of the last digit and short peaks can be suppressed. Thus a proper reading of the indicated value is possible.

Any programmable parameters are stored in an EEPROM

and are preserved in the event of a power failure.

The IS attachable indicator model A-IAI has been developed for use in potentially explosive atmospheres. This IS attachable indicator can be combined with an IS-transmitter and with an IS signal isolator or IS transmitter power supply to enable the use in hazardous areas of zone 1.

The attachable indicator is provided with an integrated self-diagnosis circuit monitoring the perfect function of the essential parts of the indicator continuously. The integrated self-diagnosis together with error messages for sensor rupture and upper or lower deviation from the range ensure a high operating safety.

The sturdy and compact plastic case provides IP 65 ingress protection, making the instrument ideally suited for a great variety of industrial applications.

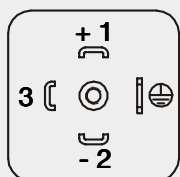
Specifications

Model A-AI-1

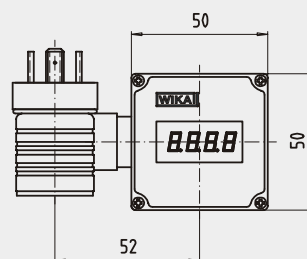
Display	
- Principle	7-segment LCD, 4-digit, 10 mm high figures
- Range	-1999 ... 9999
- Accuracy	$\pm 0.2\%$ of span ± 1 digit
Pick-up rate	3 measurements / sec
Filter	filter 1: prevents the „jumping“ of the last digit (additional delay approx. 1 sec) filter 2: filters short peaks (additional delay approx. 0.5 sec)
Error message	Exceeded range (FE1); below range (FE2)
Scale adjustment	Menu driven, start and end of measuring range as well as decimal point can be universally set by means of keys below the front cover
Electrical connection	To transmitter with 4 ... 20 mA output and L-plug according to DIN 43 650, polarity-free mounting
Power supply	not required, because the attachable indicator is supplied by the 4 ... 20 mA loop
Voltage drop	3 V
Max. current rating	max. 40 mA
CE-conformity	EN 61326 + A1 + A2
Permissible	
- ambient temperature	0 ... 50 °C
- storage temperature	-30 ... +80 °C
Temperature error	0.1% / 10 K
Ingress protection	IP 65 per EN 60 529 / IEC 529
Permissible relative humidity	< 90%, non-condensing
Ex-protection	Model A-IAI-1
Ex-certification	II 2G EEx ib IIC T4
Conformity specifications	
- Power supply	9 ... 28 V DC
- Short circuit rating	100 mA
- Power limitation	800 mW
- ambient temperature	0 ... 50 °C
	refer to EC-Type-examination certificate ZELM 03 ATEX 0161 for additional data
Case	
- Material	ABS, front window made of polycarbonate
- Weight	approx. 80 g
- Dimensions	see drawings
- Scope of delivery	Attachable indicator, blue profile packing, fastening-screw, manual

Wiring

Pin assignment of
4-pin L-plug according
to DIN 43 650



Dimensions in mm



2018811

Modifications may take place and materials specified may be replaced by others without prior notice.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.



WIKAL Alexander Wiegand GmbH & Co. KG
 Alexander-Wiegand-Straße 30
 63911 Klingenberg/Germany
 Phone (+49) 93 72/132-9986
 Fax (+49) 93 72/132-217
 E-Mail testequip@wika.de
www.wika.de