

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

WIKAI 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.

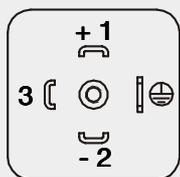
Specifications

Model A-AI-1

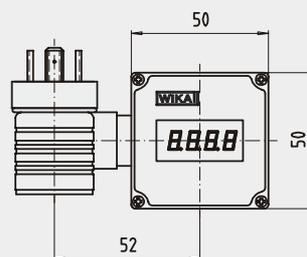
| | |
|-------------------------------|---|
| Display | |
| - Principle | 7-segment LCD, 4-digit, 10 mm high figures |
| - Range | -1999 ... 9999 |
| - Accuracy | $\pm 0.2\%$ of span ± 1 digit |
| Pick-up rate | 3 measurements / sec |
| Filter | filter 1: prevents the „jumping“ of the last digit (additional 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



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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.

