RIA14
Loop-powered field indicator

Excellent readable indication of a 4...20 mA signal on-site for a better process overview!

**Benefits:**
- Display of 4 to 20 mA measured values
- 5-digit measured value display with dimension, bar graph and backlight
- No external power supply required
- Versions: Die-cast aluminum housing or stainless steel housing
- Easy 3-key operation; or configuration with FieldCare PC software; or configuration without power supply using setup box
- International approvals; marine approval
- Allows the HART® transmission protocol to pass unimpeded

**Specs at a glance**
- **Input** 1 x analogue 4...20 mA
- **Output** 1 x open collector
- **Display** LCD 20 mm (0.79") 5-digit Bargraph Plain text display
- **Power Supply** Loop powered

**Field of application:** The indicator shows the measured signal on the large, backlit display. An additional bar graph gives a quick process overview and a plain text field displays further information like the engineering unit or TAG. Limit value infringements are also signalized and an open collector can be switched. No separate power supply is required, the indicator is powered directly from the 4...20 mA loop. The housing is available in aluminum and in stainless steel as well as with an optional Ex d approval.

**Features and specifications**
### Process indicator & control units

**Measuring principle**
Loop powered indicators

**Measuring principle**
Loop-powered field indicator

**Function**
Display

**Display**
LCD 20 mm (0.79")
5-digit
Bargraph
Plain text display

**Power Supply**
Loop powered

**Input**
1 x analogue 4...20 mA

**Output**
1 x open collector

**Output**
1 x open collector

**Software functions**
Not defined
Process indicator & control units

Certificates
ATEX II2(1)G Ex ib [ia Ga] IIC T6 Gb
ATEX II2G Ex db IIC T6 Gb
ATEX II2D Ex tb IIIC Db
ATEX II3G Ex nA IIC T6
CSA General Purpose
CSA XP,NI,DIP I,II,III/1+2/ABCDEFG
FM XP,NI,DIP I,II,III/1+2/ABCDEFG
EAC 1Ex ib[ia] IIC T6
EAC 1Ex d IIC T6, Ex tD A21
IECEx Ex ib [ia Ga] IIC T6 Gb
IECEx Ex db IIC T6 Gb
IECEx Ex tb IIIC Db
NEPSI Ex ib[ia] IIC T6/T5/T4
NEPSI Ex d IIC T6/T5/T4
TIIS Ex d IIC T6
UK II2(1)G Ex ib [ia Ga] IIC T6 Gb
UK II2G Ex db IIC T6 Gb
UK II2D Ex tb IIIC Db
marine certificate

SIL
Not defined

Panel mounting
field

Acquisition / Evaluation

Measuring principle
Display

Function
Display
Acquisition / Evaluation

**Certification**
- UR C/US
- CSA GP
- ATEX Ex d
- ATEX Staub
- ATEX n
- FM USA NI
- FM USA DIP
- FM USA XP
- CSA NI
- CSA DIP
- CSA XP
- Marine approval

**Input**
- 1 x analogue 4...20 mA

**Output**
- 1 x open collector

**Auxiliary power supply / Loop power supply**
- Loop powered

**Dimensions (wxhxd)**
- Field housing:
  - 132 x 135 x 106 mm
  - (5.2" x 5.31" x 4.17")

**Operation**
- 3 keys interface on electronics + PC interface
- FieldCare

**Display**
- LCD 20 mm (0.79")
- 5-digit
- Bargraph
- Plain text display
More information www.endress.com/RIA14