Transmitter Supply RN221N

Benefits:

- Wide range power supply, flexible power source
- Compact side by side DIN rail housing
- International Ex approvals; marine approval
- Bidirectional HART® transmission. Communication sockets for HART® sensor setting up. Evaluation of status information from connected transmitter with HART® protocol.
- Primary or secondary master operating mode, automatic selection
- Sensor monitoring with early-warning system
- Manual or automatic reset of the relay contact

Specs at a glance

- **Input** 1 x analog 4...20 mA
- **Output** 1 x analog 4...20 mA

Field of application: The active barrier RN221N supplies e.g. a transmitter with power, if required also in the Ex-area, and then transmits the galvanically isolated signal. With the optionally available HART® monitoring the status of the transmitter is monitored. If an error arises a relay at the RN221N sends an alarm. The relay has to be actively set back. Thus even just briefly occurring errors can be easily located.

Features and specifications

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### Power supplies & barrier

**Function**  
Active barrier with power supply for safe separation of 4...20 mA current circuit

**Loop power supply**  
20...250 V DC/AC

**Auxiliary power supply / Loop power supply**  
20...250 V DC/AC

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

**Output**  
1 x analog 4...20 mA

**Certificates**  
- ATEX II (1)GD (Ex ia) IIC  
- FM AIS I,II,III/1/ABCDEFG1  
- CSA (Ex ia) I,II,III/1/ABCDEFG1  
- IECEx (Ex ia) IIC  
- NEPSI (Ex ia) IIC  
- EAC (Ex ia) IIC

**Operation**  
HART

### Acquisition / Evaluation

**Measuring principle**  
Power supply

**Function**  
Active barrier with power supply for safe separation of 4...20 mA current circuit
### Acquisition / Evaluation

#### Certification
- ATEX II(1)GD(Ex ia)IIC
- FM USA IS
- FM USA NI
- CSA IS
- CSA NI
- IEEEx Ex ia
- TIIS Ex ia
- GOST Ex i
- Marine approval
- SIL
- Hygenic WHG

#### Input
- 1 x analog 4...20 mA

#### Output
- 1 x analog 4...20 mA

#### Relay output
- 1 x no contact

#### Auxiliary power supply / Loop power supply
- 20...250 V DC/AC

#### Dimensions (wxhxd)
- 22.5 x 110 x 112 mm
  - (0.89" x 4.33" x 4.41")

#### Operation
- HART

More information [www.us.endress.com/RN221N](http://www.us.endress.com/RN221N)