



Level



Pressure



Flow



Temperature



Liquid  
Analysis



Registration



Systems  
Components



Services



Solutions

## Digital Process Display RIA452

7-digit and bargraph, multi-colored LCD panel meter with monitoring, alarm, calculation and pump control functions



### Features

- Universal input for any sensor connection
- Large bright display for easy reading
- 4 or 8 relays for alarm and control
- Optional 4 digital status inputs
- Totalization and open channel flow functions
- Retransmission analog output to connect to PLC
- Total reset switch for easy operation
- Intrinsic safety (optional)
- NEMA 4X front (complete field housing available)

### All in one panel meter to satisfy your indication needs

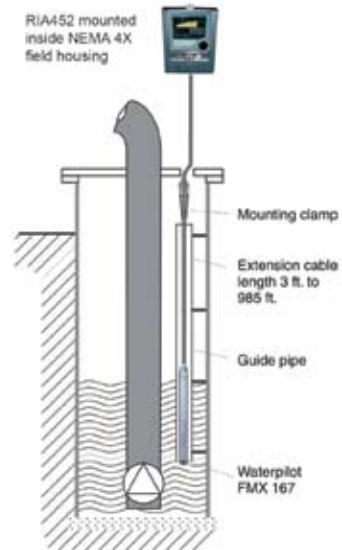
- Pump control function in lift station
- Open channel flow monitoring in the wastewater industry
- Revolution speed monitoring on turbines in hydro-electric power plants
- Pressure monitoring in compressed air systems
- Storage tank control in the chemical industry
- Temperature control fermentation tanks in breweries
- Deep well monitoring
- Simple filling sequences in the beverage industry

Endress+Hauser

People for Process Automation

### Water/Wastewater application

- Pump alternation for 2 or 3 pumps. Maximize pump life and equalize pump wear
- Indication of pump failure, running times, fault conditioning and dry run protection
- Integral power supply for level or process transmitter
- Up to 8 fully programmable relay/alarm contacts
- Optional 4 digital status inputs to verify pump operation
- Optional Intrinsically Safe/Explosion Proof (ATEX, FM, CSA)
- 7-digit, 14 segment multi-colored LC display indicates process value
- Large bargraph with overshoot and undershoot warning indication
- Local dial operating for easy access to parameters
- RS232 communication for remote control



Lift station application with RIA452 and FMX167 sensor

### Open Channel application

- 13 pre-programmed and freely programmable open channels and weir formula to calculate flow
- Able to enter up to 32 point inputs and outputs to compute volume
- Graphic presentation of level vs. volume
- Analog or impulse retransmission for remote monitoring
- 4 or 8 relay contacts to alarm process condition
- Integral power supply for 2- and 4-wire sensors
- Freely programmable units or text
- Alternating scrolled display (e.g. height, flow, summated counter value)
- RS232 communication



Model No.	Description
RIA452A112A11K	0/4-20mA, 4 Digital status input, 90-250VAC, 4 SPDT, analog retransmission
RIA452A113A11K	0/4-20mA, 4 Digital status input, 90-250VAC, 8 SPDT, 1 pulse output, integration, linearization

ISO 9001:2000 Certified

08.07/SCUSA

USA	Canada	Mexico	International
-----	--------	--------	---------------

Endress+Hauser, Inc.  
2350 Endress Place  
Greenwood, IN 46143  
Tel: 317-535-7138  
Sales: 888-ENDRESS  
Service: 800-642-8737  
Fax: 317-535-8498  
inquiry@us.endress.com  
www.us.endress.com

Endress+Hauser Canada  
1075 Sutton Drive  
Burlington, ON L7L 5Z8  
Tel: 905-681-9292  
800-668-3199  
Fax: 905-681-9444  
info@ca.endress.com  
www.ca.endress.com

Endress+Hauser México S.A. de C.V.  
Fernando Montes de Oca 21 Edificio A Piso 3  
Fracc. Industrial San Nicolás  
54030 Tlalnepantla de Baz  
Estado de México  
México  
Tel: +52 55 5321 2080  
Fax: +52 55 5321 2099  
eh.mexico@mx.endress.com  
www.mx.endress.com

For international locations  
visit: [www.endress.com/worldwide](http://www.endress.com/worldwide)