

# RIXOTACT\_4



- Measuring draft, pressure and differential pressure
- + integrated Three-Point-Step-Controller
- + intergrated Transmitter 0-10V

	<b>Measuring System</b> "Ringbalance" measuring principle
Display	LCD, 3 1/2 digit, 12.5 mm high
Units	Pa, kPa, daPa, mbar, mmW.C., in.W.C.
Measuring ranges	from 0...40 Pa to 0...1.8 kPa (0.15"W.C. - 7"W.C.) and any range within these limits
Measuring pick-up	Hall - sensor (magnetic-field sensor)
Accuracy	max. error +/-1,5% of span; or +/-1,5 Pa
Ambient temp.	0 . . . +50 °C (32 - 122 °F)
Housing	Polycarbonate light-grey, protection class IP65, Dimensions: 180 x 255 mm, 165 mm deep

	<b>Controller</b> Three-point-step-controller with PD action
Setpoints W1/W2	two setpoints, adjustable from 20...80% of span, selectable via terminals 3-4
LCD - Switch	upper position: LCD shows the actual value "X" lower position: LCD shows actual setpoint "W"
Control outputs	potential-free relay contacts, rated at 250V/2A
Control Settings	P - proportional band, D - differential action, NZ - Neutral zone (deadband), F - switching (pulse-) frequency

	<b>Transmitter</b> 0-10 V, proportional to the measured (actual) value "X"; min.load: 2k ohms
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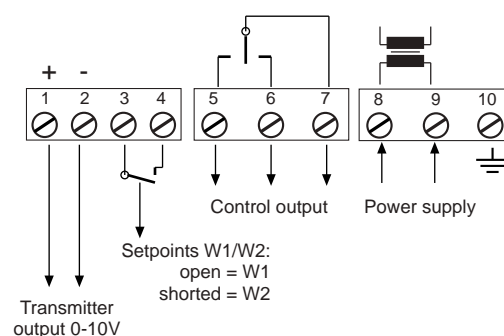
Power supply EMV	230V AC (110/120/240 VAC; 24V DC); 3.5VA Electromagnetic Compatibility according to EN50081-2 (emmission) and EN50082-2 (immunity)
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	<b>Ordering specification</b>
1. Type	Rixotact_4
2. Measuring range	For best results, select such a range that your estimated setpoints lie approximately in the middle (mid-third) of the measuring range.
3. Power supply	please specify
4. Options	Overload Protection Device "DZ" (Bypass) see next page



Rixotact\_4  
Controller + Transmitter

## Terminal Diagram



### Measuring Ranges (examples)

Each instrument is calibrated individually, according to order.  
A factory calibration certificate is supplied to each unit.  
The ranges shown below are examples only.

**Any desired range between 40 Pa (0.15"W.C.) and 1.8 kPa (7"W.C.) is available.**

Examples:

0 .....40 Pa  
0 .....50 Pa  
0 .....60 Pa  
0 .....80 Pa  
0 .....100 Pa  
0 .....150 Pa  
0 .....200 Pa  
0 .....250 Pa  
0 .....300 Pa  
0 .....500 Pa  
0 .....600 Pa  
0 .....700 Pa  
0 .....800 Pa  
0 .....1.000 Pa  
0 .....1.200 Pa  
0 .....1.500 Pa  
0 .....1.800 Pa

-20 .....0 .....+20 Pa  
-25 .....0 .....+25 Pa  
-50 .....0 .....+50 Pa  
-100 .....0 .....+100 Pa  
-250 .....0 .....+250 Pa  
-500 .....0 .....+500 Pa

-10 .....0 .....+40 Pa  
-40 .....0 .....+10 Pa  
-30 .....0 .....+10 Pa  
-10 .....0 .....+30 Pa  
-20 .....0 .....+80 Pa  
-80 .....0 .....+20 Pa

### Other units available

mbar, mmWS, mmW.C. in.W.C. . . .

### Filling Fluids

**Note:** All Ringbalance instruments are factory-filled. The type of oil need not be mentioned in the order.

**"Mineral Oil"**, density 0.8 kg/l;  
for ranges up to +/-700 Pa  
max. overload +/-900 Pa

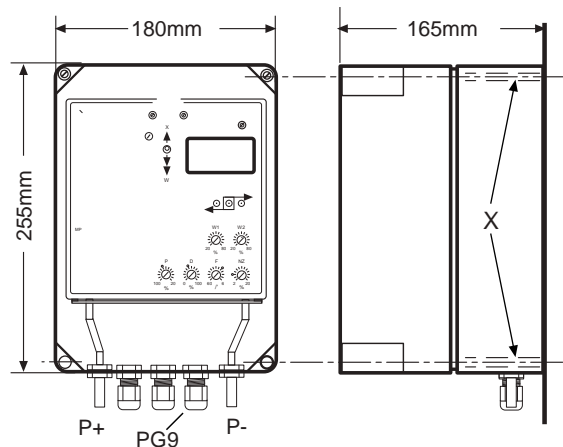
**"Galden"** Synthetic Oil, density 1,9 kg/l;  
for ranges over +/-700 Pa  
max. overload +/-2,1 kPa

### Overload Protection

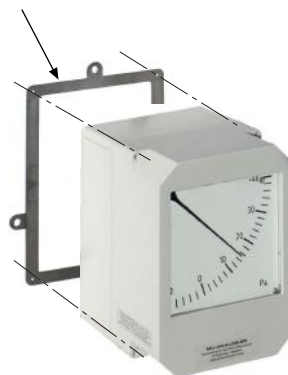
Every Ringbalance is inherently protected to at least +/-900 Pa (3.5"W.C.), even it has, for example, a measuring range of only 40 Pa (0.15"W.C.). With the synthetic oil as filling fluid, the Ringbalance is inherently protected to +/-2.1 kPa (8"W.C.).

If those limits (900 Pa respectively 2.1 kPa) are expected to be exceeded in the specific application, the overload protection device "DZ" is available as an option on all Ringbalances.

**Please mention in your order when overloads are expected.**



Mounting frame



### Housing

for wall mounting, protection class IP65, glass-reinforced polycarbonate, light-grey.

Hardened (tempered) front glass pane.

Mounting either through inner screw channels (X) or with the aid of the attached mounting frame.