



Electronic pressure control with digital display EDRA

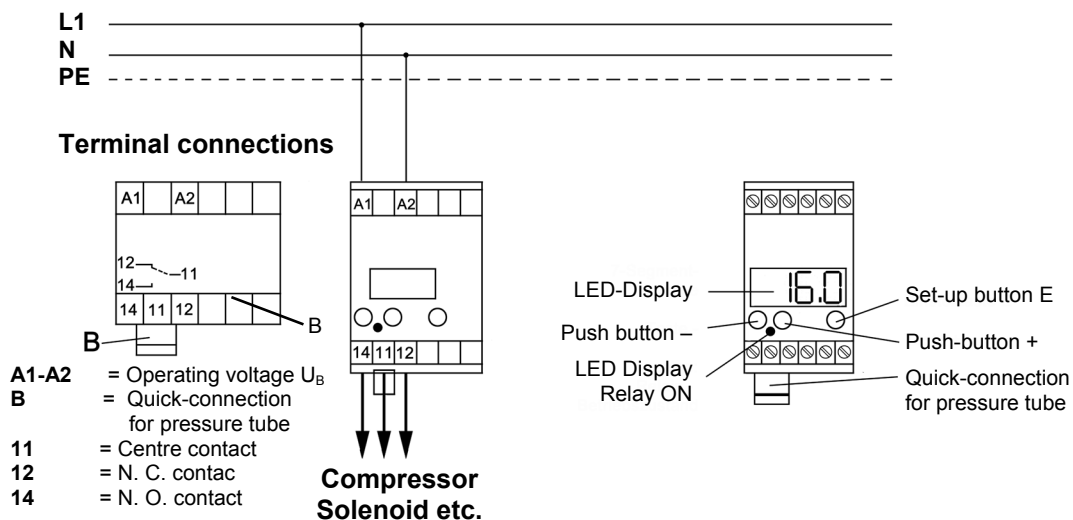
Electronic pressure switch with integrated relative pressure sensor for panel board mounting, quick-connect for pneumatic tube, digital display for mains pressure indication and threshold programming (two switching points), relay output (isolated SPDT) and isolating transformer acc. to VDE 0550.

Function: The device evaluates the applied pressure to the sensor. On exceeding an upper threshold the relay is deactivated; when falling below a lower threshold the relay is activated again. Both thresholds also are adjustable without medium. The on/off thresholds can be programmed via the display during operation - the actual pressure status is shown on the display.



The connection, commissioning and maintenance of the pressure switch must be under the guidance of appropriate personnel. Please note that for the construction and commissioning of electrical equipment relevant prevailing standards.

Circuit Diagram EDRA



Technical Data EDRA

Technical operating data	
Permissible operating voltage range	$\pm 10\%$
Operating voltage influence at $\pm 10\%$ operating voltage fluctuation	$< 0.1\%$
Duty factor ED	100 %
Permissible ambient and media temperature	-20°C up to +60°C
Permissible ambient humidity rel. humidity, non-condensing	10 % up to 90 %
Permissible storage temperature	-40°C up to 80°C
Clearance and creepage distances	VDE 0110
Working position	any position
Power consumption	max. 1 VA

Pressure connection	
Quick-connect suitable pneumatic tube e.g.	6 x 1 mm Festo PAN

Enclosure	
Material	RABS flameproof, UL-approved
Mounting	snap on 35 mm DIN-rail connector acc. to EN 50 035
Enclosure-protection	IP 40
Protection against shock	acc. VBG 4
Terminals	Cage clamps
Cross section	2.5 mm ²
Weight	255 g

Power section	
Series voltage acc. to VDE 0660 and VDE 0110 Group C	250 V-AC
Maximum continuous current per contact	6 A-AC
Maximum switching capacity per contact	1.500 VA (AC) 50 W (DC)
Mechanical life Cycles	approx. 1×10^7
Electrical life (max. load) Cycles	approx. 2×10^5

Assembly and Adjustment

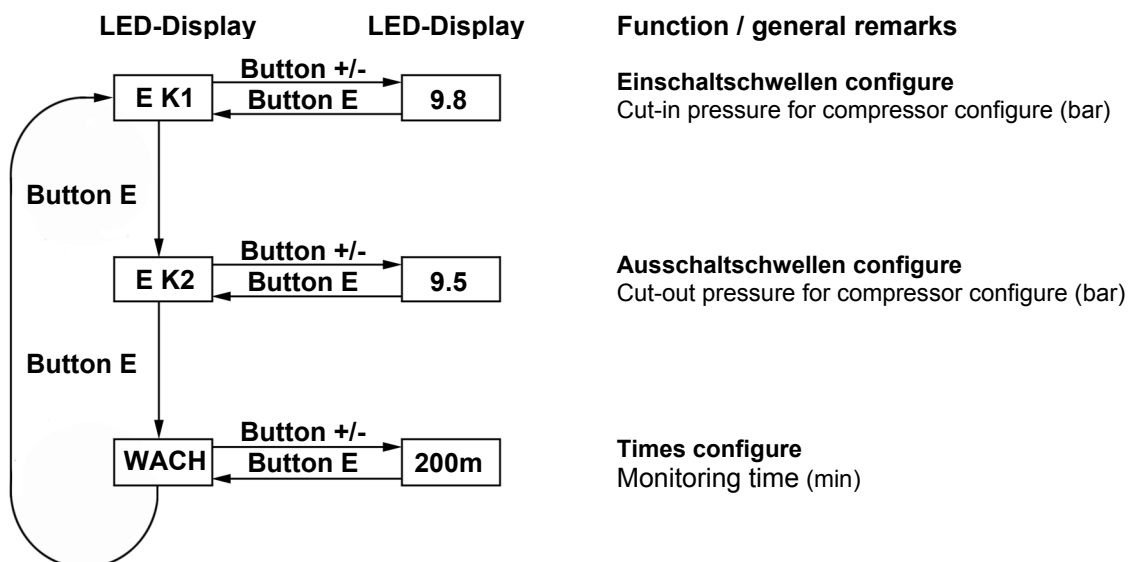
- 1.) For the correct function of the measurement system in the tightness of the connection significantly. Therefore, the tube must be cut straight and may not have scratches at the end. The tube must be inserted fully into the connector. Thereby unplug the ring! It should be noted that the tube has to be pushed over the first resistance of the plug connection. Only then the tube is completely connected.
- 2.) Recommended tube Festo PAN 6 x 1

Pressure setting

The electronic pressure control device allows the configuration of two switching points (set points). The on/off thresholds can be programmed by keystroke via the display and permanently stored in the device. No potentiometer adjustment needs to be made.

Pressing the "E" key for 2 seconds places the device in setup mode. Individual options can then be selected by pressing the "E" key again. The "+" and "-" keys are used to set both switching thresholds and the monitoring time. The value selected is stored in memory by pressing the "E" key. Hold down the "E" key for 2 seconds to exit the menu. Correct functioning and configured switching points (set points) can be checked by briefly pressing the "E" key.

Display the on-threshold value by pressing the "E" key twice. Display the off-threshold value by pressing the "E"-key again.



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