

Dual Level Controller Sensing for 2, 3 oder 4 levels

D-NR/RN 98

Basic functions

Min-Max - 2 switch points NR - Pump Up RN - Pump Down	Max - 1 switching point NR - Overflow protection RN - Run Dry protection
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Any 2 functions can be combined as to customer needs

Conductive measurement principle (for conductive media)

Sensitivity is adjustable

LED indicators for relay state and operation

Probes are operated with alternate current signal

Supply and measurement signal are isolated from each other

Safety measure against supply or transformer malfunction, then the filling and / or draining process will be stopped



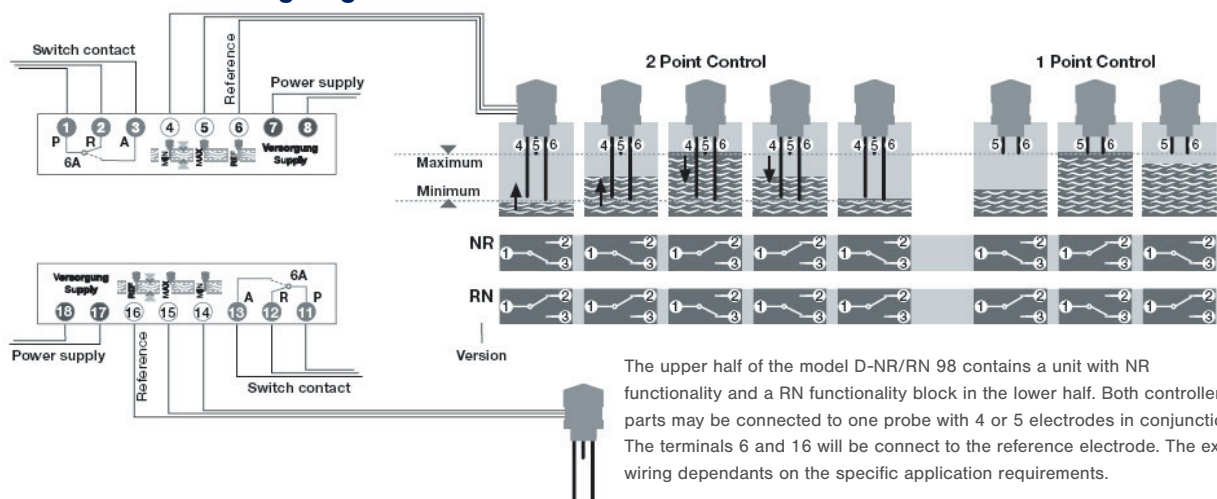
Technical data

Dimensions:	L 75 x B 55 x H 110mm
Housing:	Quick install onto standard DIN rail to DIN EN 50022
Output:	2 SPDT energised for action
Switching voltage:	max. 250V AC
Switching current:	6A
Power On time:	100%
Probe voltage:	Centre position 12V AC max. 25V AC

Protection class:	Housing IP40; Terminal IP20 with captive, touch protected screws
Supply voltage:	230V AC
on request:	24V AC, 42V AC, 115V AC
Supply frequency:	50-60 Hz
Tolerance:	-15% to +10%
Power consumption:	twice max. 2,7VA
Ambient temperature:	-20°C up to +60°C

Type	Resistivity Range KΩ (centre position) max.	Conductance μS	Probe Current ≈ μA	Cable Capacity nF (centre position)	Cable Lenth m (centre position)
Standard	-70 (20)	14	< 340	60	500
-3	-800 (330)	1,25	< 30	4	30
-3/12	-1200 (700)	0,85	< 20	1	8

Functional and wiring diagram



Options

Variant -3	High sensible, for media with less conductivity, e.g. full demineralized water, condense
Variant -VZ	Switching delay, useful for moving filling media, undulation
Variant -3VZ	High sensible and switching delay together
all Variants	any combination available

Technische Änderungen vorbehalten / modifications reserved