

D-NR 98, D-RN 98

Dual Level Controller

Sensing for 2, 3 oder 4 levels

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

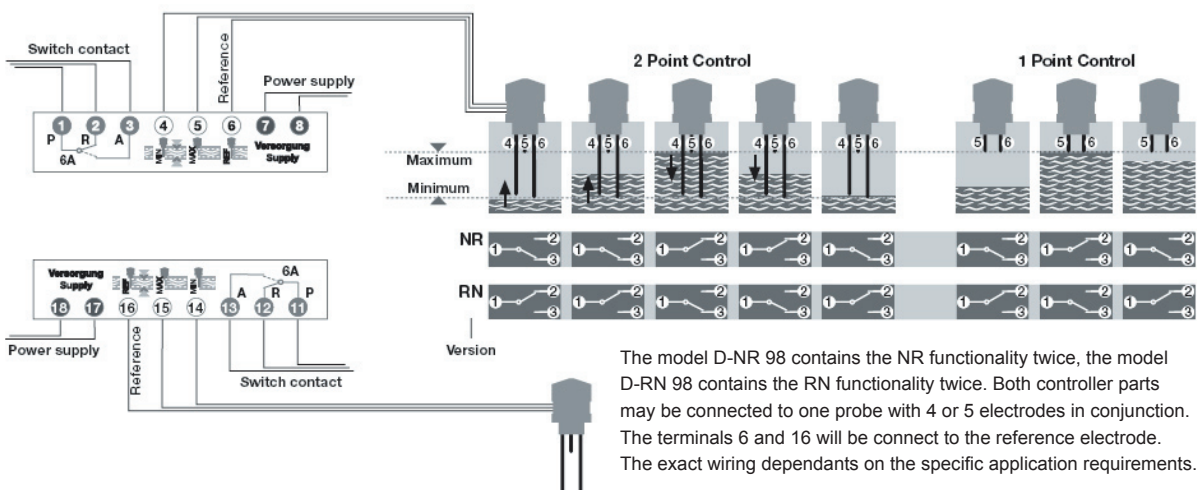


Technical data

Dimensions:	L 75 x B 55 x H 110mm	Protection class:	Housing IP40; Terminal IP20 with captive, touch protected screws
Housing:	Quick install onto standard DIN rail to DIN EN 50022	Supply voltage:	230V AC
Output:	2 SPDT energised for action	on request:	24V AC, 42V AC, 115V AC
Switching voltage:	max. 250V AC	Supply frequency:	50-60 Hz
Switching current:	6A	Tolerance:	-15% to +10%
Power On time:	100%	Power consumption:	twice max. 2,7VA
Probe voltage:	Centre position 12V AC max. 25V AC	Ambient temperature:	-20°C up to +60°C

Type	Resistivity Range KΩ (centre position)	Conductance μS max.	Probe Current ≈ μA	Cable Capacity nF (centre position)	Cable Length 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