

# Controller RO digital as a spare part for reverse osmosis units

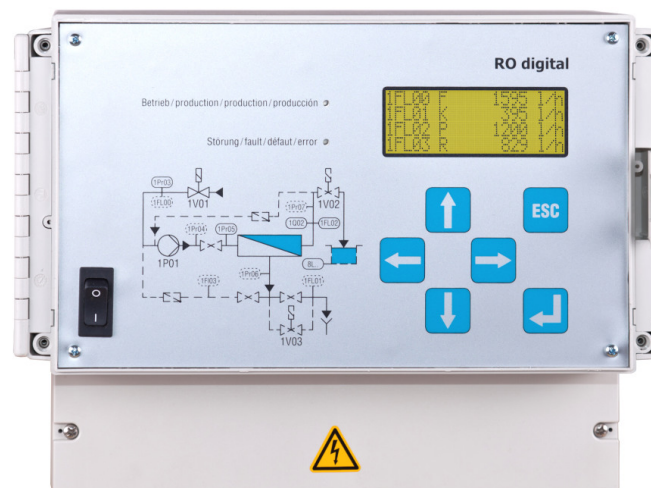
The RO digital microprocessor controller enables fully automatic operation with logging of all relevant operating data and freely adjustable limit values. The unit can be connected to the central control system via optional interfaces.

## BENEFITS

- Versatile RO digital controller with logging of operation data and many parametrisation options
- Reliable and easy to operate

## APPLICATIONS

- Spare part for reverse osmosis units with RO digital controller  
Surface mount version suitable for UO-D 120 - 500 (C/CD), built-in version suitable for all larger series



RO digital controller

# Controller RO digital as a spare part for reverse osmosis units

## DESCRIPTION

### Essential features

- Display of operating conditions
- Logging of up to 1,960 datasets with selectable saving interval
- Integrated constant permeate flow regulation with frequency-controlled pumps (FU version)
- Totalizer for flow rates of feed water, permeate and concentrate
- Calculation of permeate recovery ratio
- Quality controlled permeate recycling/-reject at unit start up
- Flushing program for concentrate displacement at unit stop
- Interval flushing to prevent fouling during stand-by
- Selectable forced flushing i.e. for antiscalant operation
- Manually actuated flushing mode
- Recording mode for data recording, i.e. during maintenance
- Automatic shutdown at hard water/motor protection
- Counter for operating hours
- LED display for operation and malfunction
- Password secured programming
- Languages clear type display: German / English / French / Spanish

### Inputs digital

- External stop (e.g. in case of interrupted feed water supply)
- Motor protection / hard water
- 2x level permeate tank (tank min / max)
- 3x universal input (configurable)

### Inputs analogue

- Conductivity probe 1 - 999  $\mu\text{S}/\text{cm}$
- Temperature compensation
- Pressure sensor feed water
- Pressure sensor operating pressure
- Permeate flow rate
- 4 free configurable analogue inputs for flow rates (e.g. feed water, concentrate, concentrate recycling) and pressures (inlet filter, pump, concentrate, permeate, level permeate tank)

### Outputs digital

- Potential loaded pump outlet 230 VAC, 2 phase N and L switched, 5 A fused
- 3 potential loaded valve outlets 24 VDC, max. 0.5 A for feed water valve, permeate valve, concentrate flushing valve
- 2 potential free relay outputs, change over contacts, max. 230 VAC/4 A or 24 VDC/1 A for Omnibus fault message universal output (free configurable)

### Outputs analogue

- 2 configurable analogue outputs 4-20 mA, max. 500 Ohm

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## CONDITIONS OF USE

The compatible front foil must be ordered separately!

## TECHNICAL DATA OF SERIES

Product name	Description	Item number
RO digital surface mount version	For RO units with less than 500 l/h	545 960
RO digital built-in version	For RO units with more than 500 l/h	545 466