Measuring and Controlling Unit
Multronic OC

- **One channel measuring and controlling unit for pH / conductivity / Chlorine measuring**
- **Automatic temperature compensation**
- **Measuring and control behaviour simultaneously represented on illuminated display**
- **Excellent interference immunity through galvanic separation of measurement module and outputs**
- **Optimal process adaptation due to free-adjustable 2-/3- point P-, PI-, PID-, Fuzzy or adaptive Fuzzy control course for each measurement module**
- **Two switch outputs and one standard signal output**
- **Free selection of control behaviour**
- **Bidirectional data transfer with MCT technology**
- **ProfibusDP technology**

The MULTRONIC OC measurement and control range comprises a comprehensive selection of measurement and control units appropriated to all types of applications in industrial and chemical process technology.

Each measurement and control task has its own individual equipment requirement.
To meet this requirement, the modern modular system of the MULTRONIC OC measurement and control range is designed to provide the ideal module for each individual situation.

MULTRONIC OC can operate as an independent measurement and control unit or can be integrated into a complete system. With MCT technology a software supported PC data transfer is possible.

Technical data:

Power supply optional	230 V 50/60 Hz, 115 V 50/60 Hz
Safety type	IP 65
Inputs	according to measurement module equipment
Outputs	max. 3 digital and 1 analogue RS232 interface
Power consumption	25 W
Accuracy of measurement	1 % of final value of measurement range
Permissible ambient temperature	0° C to + 45° C
Resistance	chemically resistant plastic housing (Noryl)
Display	illuminated graphic display
Accuracy of display	+/- 0.5 %
Languages on display	English, German, French (optional)
ProfibusDP	up to 12 Mbit/sec (autodetect)
Dimensions (h ∗ w ∗ d)	290 x 224 x 96 mm
Weight	2.5 kg

Notice: To guarantee the newest state of our products, we reserve the rights for single technical changes.

pH measurement

Measuring ranges:	0 - 14 pH
	2 - 12 pH
	3 - 8 pH

Inductivity measurement

Measuring ranges:	0 - 2 mS/cm
	0 - 20 mS/cm
	0 - 200 mS/cm
	0 - 2000 mS/cm

Conductive conductivity measurement (contact conductivity)

Measuring ranges:	0-2 µS/cm
	0-20 µS/cm
	0-200 µS/cm

Chlorine measurement

Measuring range:	0-2 mg/l
	0-20 mg/l

Outputs per measurement module

Switch outputs:	2 auxiliary contacts
	230 V AC / 3 V
Analogue outputs:	0-20mA
	4-20mA

Settings

Signal unit

Nominal value (W):	Measuring range of measurement module
Switch difference (XSD):	0 ... 30.0 %
Start delay:	0 ... 240 seconds
Switch-off delay:	0 ... 240 seconds
Switching point interval (LW):	± measurement range
Switch difference (X2SD):	0 ... 30.0 %

Two-position controller

Nominal value (W):	Measuring range of measurement module
Proportioning band (XP1):	0 ... 999.9 %
Rate time (TV):	0 ... 1.200 seconds
Reset time (TN):	0 ... 3.600 seconds
Starting time (T_{min}):	0 ... 60 seconds
Switch. point interval (LW):	± measurement range
Switch difference (X2SD):	0 ... 30.0 %

Three-level controller

Nominal value (W):	Measuring range of measurement module
Proportioning band (XP1):	0 ... 999.9 %
Proportioning band (XP2):	0 ... 999.9 %
Rate time (TV):	0 ... 1.200 seconds
Reset time (TN):	0 ... 3.600 seconds
Switching point interval (XSH):	0 ... 20.0 %
Starting time (T_{min}):	0 ... 60 seconds

Limit contact

Limit contact (L-):	Measuring range of measurement module
Limit contact (L+):	Measuring range of measurement module
Switch difference (X2SD):	0 ... 30 %

Dimensions: