



Versatronic

# 4-channel measurement and control device in modular design

- Chemical-resistant housing for wall mounting or control cabinet installation
- ✓ 5.5" TFT-colored touch screen
- Large clamping space
- Acquisition and processing of up to 4 measured variables (Conductivity, pH, Redox, CI, CIO<sub>2</sub>, PAA, …)
- Features per channel:
  - 1 analysis input
  - 1 temperature input
  - 1 release input
  - 1 freely programmable controller
  - 1 or more control outputs
  - 1 standard signal output (0/2 10 V or 0/4 20 mA)
- PC configuration software for device configuration via prearranged setup screens
- Bi-directional data transfer via RS 485 or USB interface (standard), alternatively via Ethernet (LAN) interface or USB data stick (optional)

The measurement and control device Versatronic provides in addition to the simultaneous processing of up to 4 measurement and control channels, also various communication interfaces such as RS 485, Profibus, USB, Ethernet.

System states can be called-up via remote access at any time by an integrated web server.

#### A paperless recorder (optional) is able to record all measured values and switching states during a period of up to one year. By using an extensive evaluation software, the recorded data can be analyzed and visualized comfortably.

## Technical data:

Power supply Safety type Inputs Outputs Interfaces Power consumption Resistance Permissible ambient temperature Display Dimensions (w \* h \* d) Weight 110 - 240 V (+10/-15 %) 48 - 63 Hz IP 67 max. 6 binary and 5 analog inputs max. 7 (11) binary and 4 analog outputs RS 422/485, USB, Profibus DP, Ethernet 54 VA chemically resistant plastic housing (ABS) -5 °C to +50 °C colored touch screen 301.5 x 301 x 137.5 mm 3.4 kg

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



# Measurement and control device Versatronic



pH measurement		Controller typ
Measuring range:	-2 to +16 pH	Two-point cont
Measurement accuracy:	≤ 0.5 %	Three-point co
		Coarse and pr
Redox measurement		Continuous co
Measuring range:	-1500 to +1000 mV	
Measurement accuracy:	≤ 0.5 %	Controller out
		Pulse width ou
Temperature measureme		Pulse width ou
Measuring range:	-200 to +850 °C	Continuous ou
Measurement accuracy:	≤ 0.1 %	
		Control paran
Conductive conductivity		Nominal value
Units:	uS/cm, mS/cm	
Measuring range:	0 - 99999 *	Proportioning I
	0 - 99.999 *	Rate time (Tv)
	0 - 999.99 *	Reset time (Tr
	0 - 9999.9 *	Switching period
Cell constant:	4.00 to 8.00 cm <sup>-1</sup>	Contact gap (X
Measurement accuracy:	≤ 1 %	Switching hyst
		Operating poir
Inductive conductivity m		Max. degree o
Units:	uS/cm, mS/cm	Min. relay activ
Measuring range:	0 - 99999 *	Max. pulse rate
	0 - 99.999 *	Start-up delay:
	0 - 999.99 *	Switch-off dela
	0 - 9999.9 *	Alarm toleranc
Cell constant:	0.01 to 10 cm <sup>-1</sup>	Alarm delay:
Measurement accuracy:		
0 to 999 uS/cm	≤ 1.5 %	
1 to 500 mS/cm	≤ 1.0 %	Limit alarm se
500.1 to 2000 mS/cm	≤ 1.5 %	Alarm type :
Universal input		
Measuring range:	0(4) - 20 mA	Limit value:
Measurement accuracy:	≤ 0.1 %	Hysteresis:
-		Window width:
Outputs per measuremen	nt channel	Start-up delay:
Switch outputs:	1 or 2	Switch-off dela
	control outputs	
Analog outputs:	1 or 2	
2 .	analog outputs	
	0(4) - 20 mA	

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#### utput types

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### meter

e (W):

band (Xp): ): n): iod (Cy): Xsh): teresis (Xd): nt (Y0): of operation (Y): ivation time (Tk): 0 - 60 s te: 1: ay: ce:

# ettings

1: 1: ay:

0 - 9999.9 % 0 - 9999 s 0 - 9999 s 0 - 9999 s 0 - 999.9 \*\* 0 - 999.9 \*\* -100 to +100 % 0 - 100 % 0 - 240 min-1 0 - 999.9 s 0 - 999.9 s 0 - 999.9 \*\* 0 - 9999 s

Measuring range of

measurement module

min. alarm, max. alarm, alarm window, inverse alarm window invertiert 0 - 99999 \*\* 0 - 99999 \*\* 0 - 99999 \*\* 0 - 999 s 0 - 999 s

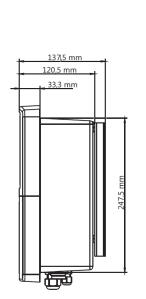
\*

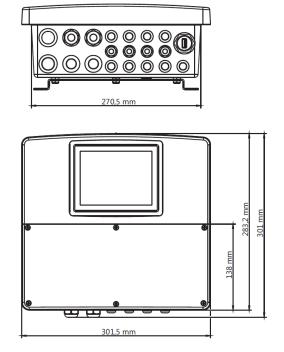
Unit varies depending on selection for "Unit for calculation" (µS/cm or mS/cm) Unit depends on the type of measurement \*\* (pH, mV, μS/cm, mS/cm, …)





# **Dimensions:**

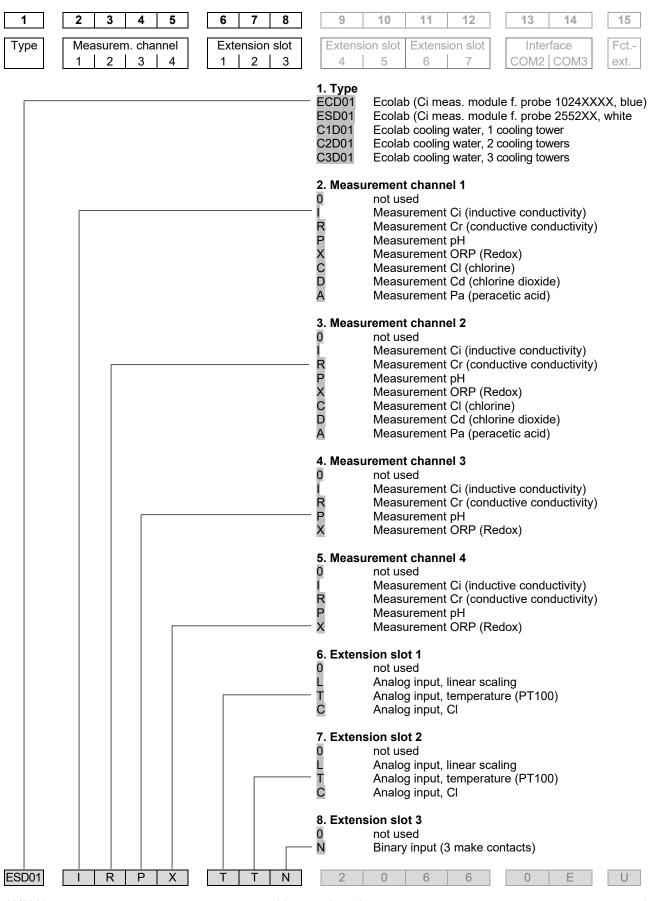








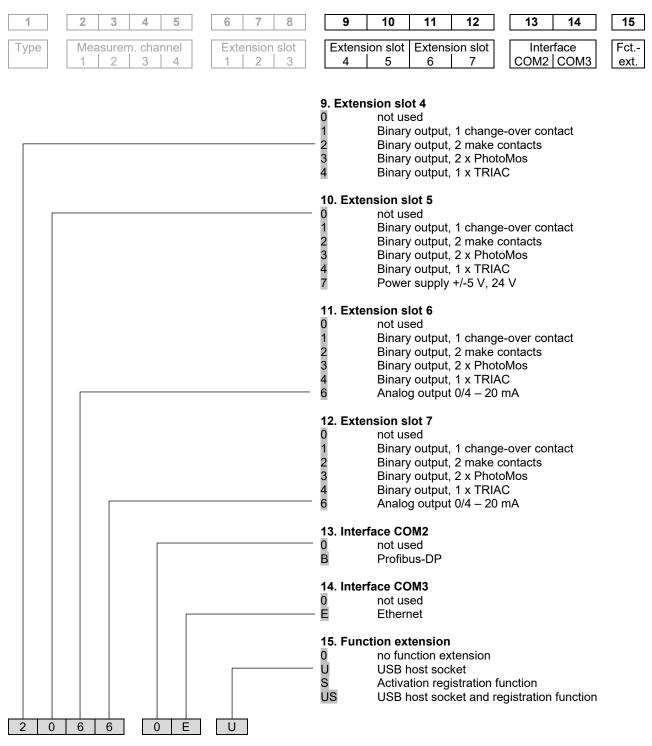
### Order code (Pos. 1 - 8):







Order code (Pos. 9 - 15):



Example code (4 channel device):

Versatronic ECD01-IRPX-TTN-2066-0E-U





255253

255254

255260

# Order data



Article	Article no.
Basic unit	
Versatronic basic unit	155201
incl. operating instructions	



Measuring module	
Measuring module Plug-in card Ci (inductive conductivity) for probe 1024xxxx, blue	10240817
Measuring module Plug-in card Ci for probe 2552xx, white	255250
Measuring module Plug-in card Cr (conductive conductivity)	255251
Measuring module Plug-in card pH/Redox	255252



Input Plug-in card

Plug-in card, universal input

Plug-in card, binary input (3 make contacts)



Output Plug-in card	
Plug-in card, analog output (0/4 - 20 mA)	255255
Plug-in card, binary output (1 change-over contact)	255256
Plug-in card, binary output (2 make contacts)	255257
Plug-in card, binary output (2 x PhotoMOS)	255258
Plug-in card, binary output (1 x TRIAC)	255259



Interface Plug-in card	
Plug-in card, Profibus-DP interface	255261
Plug-in card, Ethernet interface	255262

Plug-in card, power supply +/-5 V, 24 V