



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, Cl, ClO₂, 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
Measuring range: Measurement accuracy:	-2 to +16 pH ≤ 0.5 %	Three-point of Three-point
,		Coarse and
Redox measurement		Continuous
Measuring range:	-1500 to +1000 mV	0
Measurement accuracy:	≤ 0.5 %	Controller Dulco width
Temperature measurem	ont	Pulse width
Measuring range:	-200 to +850 °C	Continuous
Measurement accuracy:	≤ 0.1 %	
,		Control pa
Conductive conductivity	v measurement (Cr)	Nominal va
Units:	uS/cm, mS/cm	
Measuring range:	0 - 99999 *	Proportioni
	0 - 99.999 *	Rate time (
	0 - 999.99 ^	Reset time
Coll constant:	0 - 9999.9 " 4 00 to 8 00 cm ⁻¹	Contact ga
Measurement accuracy:	< 1 %	Switching h
measurement accuracy.	= 1 /0	Operating r
Inductive conductivity n	neasurement (Ci)	Max. degre
Units:	uS/cm, mS/cm	Min. relay a
Measuring range:	0 - 99999 *	Max. pulse
	0 - 99.999 *	Start-up de
	0 - 999.99 *	Switch-off c
o	0 - 9999.9 *	Alarm tolera
Cell constant:	0.01 to 10 cm ⁻¹	Alarm delay
Measurement accuracy:		
0 to 999 uS/cm	≤ 1.5 % < 1.0 %	l imit alarn
500 1 to 2000 mS/cm	≤ 1.0 % < 1.5 %	Alarm type
300. I to 2000 III3/CIII	≤ 1.5 %	, addin type
Universal input		
Measuring range:	0(4) - 20 mA	Limit value:
Measurement accuracy:	≤ 0.1 %	Hysteresis:
		Window Wi
Outputs per measureme	ent channel	Start-up de
Switch outputs:	1 or 2	Switch-off C
Analog autouto		
Analog outputs.	analog outputs	
	0(4) - 20 mA	

types

controller t controller d precise controller s controller

output types

n output n output output

rameter

alue (W):

ng band (Xp): Tv): (Tn): period (Cy): p (Xsh): nysteresis (Xd): point (Y0): e of operation (Y): activation time (Tk): 0 - 60 s rate: elay: delay: ance: y:

n settings

:

dth: elay: delay:

0 - 999.9 s 0 - 999.9 s 0 - 999.9 ** 0 - 9999 s min. alarm, max. alarm, alarm window, inverse alarm window invertiert 0 - 99999 ** 0 - 99999 ** 0 - 99999 ** 0 - 999 s

Measuring range of measurement module

0 - 9999.9 % 0 - 9999 s

0 - 9999 s

0 - 9999 s

0 - 999.9 **

0 - 999.9 **

0 - 100 %

-100 to +100 %

0 - 240 min-1

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 ES1-IRPX-TTN-2066-0E-U





255253

255254

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





Output Plug-in card

Input Plug-in card

Plug-in card, universal input

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

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
Plug-in card, power supply +/-5 V, 24 V	255260



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