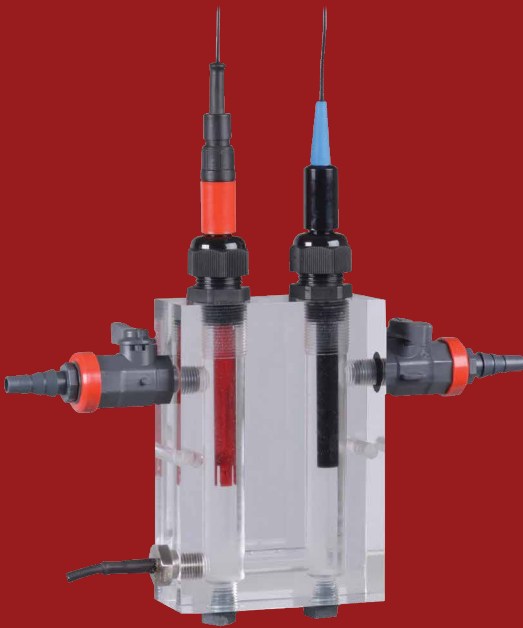


- **Gold Plated BNC**
- **2 Multiparamter Channels**
- **2 (3) Independable Control Systems**
- **Control types**
proportional
on/off
- **Safety Features**
Stop control without stopping measurements
Automatic Resume
Washing Program
Programmable alarm
- **Pre-programmed standards**
pH: 1.68, 2.00, 4.00, 4.01, 6.87, 6.99, 9.18, 9.21, 10.01, 12.00, 12.45 (at 25°C)
Conductivity: 1413 μ S/cm, 12.88 mS/cm, 111.8 mS/cm (at 25°C)
- **No interference between electrodes**
- **Stability algorithm with intuitive indicator**
- **Selectable resolution**
- **Capacitive compensation**
- **Galvanic isolated RS485 interface**
- **Galvanic isolated 4-20mA outputs**
- **High Accuracy**
- **Free software**
- **Open Communication Protocol**



FC3020T flowcell with intergrated T sensor

The R3600 adds 2 (3 for R3630) independent programmable control systems to measurement system of C3000 series. It's possible to connect up to 31 controllers with a computer. A programmable alarm function prevents overdosing of chemicals in the process liquid.

R3614 and R3624 are versions with 1 extra DIN connector for 4-pole conductivity electrodes.

Specifications depending on model

Measurement Channels	2
Temperature Channels	2
Controls	2 (3)
Solid State Relays	4
pH	-2.000...+16.000 pH
mV	\pm 2000.0 mV
Ion	0.01 ng/l...100 g/l
Conductivity	0...2000 mS/cm
Dissolved oxygen	0...60.00 mg/l 0...600%
Free chlorine	0...10 mg/l
Air pressure	600...1300 hPa
Temperature	-5.0...+105.0°C
Digital output	RS485
Analogue output	4..20mA
Warranty	36 months
Made in Belgium	

Code	Description
R3610	Controller for pH/mV/conductivity/dissolved oxygen
R3614	Controller for pH/mV/conductivity/dissolved oxygen with 4-pole input
R3620	Controller for pH/mV/conductivity/dissolved oxygen/ion
R3624	Controller for pH/mV/conductivity/dissolved oxygen/ion with 4-pole input
R3630	Controller for pH/mV/conductivity/dissolved oxygen/free chlorine
FC3020T	2 channel flow cell with integrated Pt1000 temperature sensor and mounting accessories excl. electrodes

→ Add -US for 120 VAC versions.

Measurement Channels	2
Temperature Channels	2
Controls	2
Solid State Relays	4
pH	-2.000...+16.000 pH
mV	±2000.0 mV
Ion (R3620 and R3624 only)	0.01 ng/l...100 g/l
Conductivity	0...2000 mS/cm
Dissolved oxygen	0...60.00 mg/l
	0...600%
Air pressure	600...1300 hPa
Temperature	-5.0...+105.0°C
Digital output	RS485
Analogue output	4..20mA
Warranty	36 months
Made in Belgium	



● Description

R3600 controller series is based on the C3000 series measurement system and has as such the same functionality. This controller adds 2 independent programmable control systems. All inputs, including temperature, can be used as input for the control system. After an unexpected mains interrupt, the controller will automatically continue with it's task.

The system has 4 programmable solid state relays and two 4-20mA analogue outputs. Various control modes and safety features are provided.

Via a galvanic isolated RS485 interface it's possible to connect up to 31 controllers with a computer. Both software and communication protocol can be downloaded for free from our website.

A programmable alarm function prevents overdosing of chemicals in the process liquid. Each time a pre-set level is exceeded the corresponding relay is closed and an alarm timer starts to count down. When the level is still exceeded after the count down, all relays will be opened and an alarm is given.

R3614 and R3624 are versions with 1 extra DIN connector for 4-pole conductivity electrodes.

● Highlights

Multichannel up to 2 measurements can be performed at the same time and simultaneous or individually displayed on the screen. Measurement speed is 2Hz.

No interference between pH/ORP/Ion and conductivity electrodes in the same solution

Custom calibration tables allows the user to add complete buffer/standard-temperature relation tables. With this feature the built-in tables can be extended with your own tables. Tables can be entered via a device menu or uploaded from a PC.

LCD Display shows 2 channels at the same time including temperature and date/time.

Stability indicator algorithm ensures stable reading and visualisation of when measurement stabilised.

Selectable resolution for more stable readings for mV, pH and DO.

Capacitive compensation eliminates the capacitive component of the electrode and cable at low conductivity measurements

Galvanic isolated RS485 interface eliminates ground loop effects when connected to a PC.

Galvanic isolated 4..20mA analogue output.

Control types: proportional, on/off

Safety Features:

- Stop the control (relays off) without stopping the measurements
- Automatic resume
- Washing program
- Programmable alarm

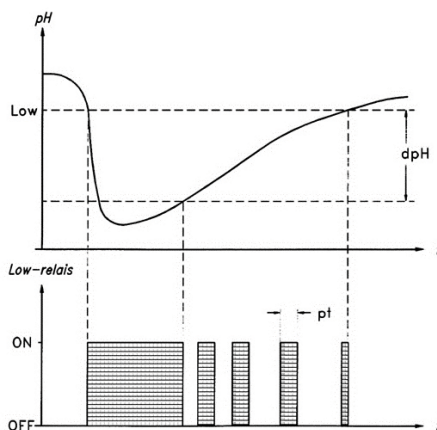
Pre-programmed standards pH: 1.68, 2.00, 4.00, 4.01, 6.87, 6.99, 9.18, 9.21, 10.01, 12.00, 12.45 (at 25°C)
Conductivity: 1413 µS/cm, 12.88 mS/cm, 111.8 mS/cm (at 25°C)

Free software and firmware updates downloadable from www.consort.be

Specifications

pH	Range	-2...+16 pH
	Resolution	0.001 pH
	Accuracy	0.1% ± 1 digit
	Calibration	1...5 points
	Buffers	11 pre-programmed 5 user specified
	Temperature compensation	-5...+105°C
	ISO-pH	6...8 pH
mV	Slope	80...120%
	Range	±2000 mV
	Resolution	0.1 mV
CONDUCTIVITY	Accuracy	0.1% ± 1 digit
	Calibration	1 point
	Range (cc dependent)	0...2000 mS/cm
	Resolution (cc dependent)	0.001 µS/cm
	Accuracy	0.5% f.s. of range
	Calibration	1...3 points
	Standards	3 pre-programmed 3 user specified
	Cell constant (cc)	0.1/1/10 cm ⁻¹ ±30%
	Temperature compensation	-5...+105°C
	Reference temperature	20° or 25°C
DISSOLVED OXYGEN	Temperature coefficient	natural waters (EN27888)
	Capacitive compensation	✓
	Range	0...60 mg/l (0...600%)
	Resolution	0.01 mg/l (0.1%)
	Accuracy	1% ± 1 digit
	Calibration	1 point
	Temperature compensation	0...50°C
ION (R62x only)	Salinity compensation	0...40
	Air pressure compensation	600...1300 hPa
	Range	0.01 ng/l...100 g/l
	Resolution	3 digits
	Accuracy	0.5% ± 1 digit
	Calibration	2...5 points + blank

TEMPERATURE	Range	-5...+105°C	
	Resolution	0.1°C	
	Accuracy	0.1°C	
AIR PRESSURE	Calibration	1 point	
	Range	600...1300 hPa	
CHANNELS	Calibration	1 point	
	Measurement	2	
INPUTS	Temperature	2	
	Measurement	2 BNC, 10 ¹² Ω	
	Temperature	1 DIN (R36x4 only)	
CALIBRATION	Temperature	2 BNC, for Pt1000	
	Reminder	0...999 h	
CONTROL	GLP	✓	
	independent controls	2	
	On/Off	✓	
	Proportional	✓	
	Wash program	✓	
	Alarm timer	✓	
DISPLAY	LCD	128x64 pixels	
	White back-light	✓	
	Selectable resolution	✓	
	Real time clock	✓	
	Built-in help	✓	
	Languages	English Dutch French German	
	ANALOG OUTPUTS	Two outputs	4...20 mA, max. 300 Ω load
	COMMUNICATION	RS485, baud rate	300...19200 b/s
DATA-LOGGING	Data sets	12000 + °C/date/time	
	Modes	all	
	Interval	1 s...4 h	
RELAY OUTPUT	Four relays	4 solid state	
	Voltage	12...250 VAC/ min. 1 mA/ max. 1 A	
SECURITY	Identification number	✓	
	Password protection	✓	
AMBIENT CONDITIONS	Temperature	0...40°C	
	Humidity	0...95%, non condensing	
POWER SUPPLY	Mains	210...250 VAC, 50/60 Hz	
DIMENSIONS	WxDxH	28x17x6 cm	
WEIGHT	Meter	1.3 kg	



FC3020T flowcell with integrated T sensor

Ordering codes

Code	Description
R3610	Controller for pH/mV/conductivity/dissolved oxygen
R3614	Controller for pH/mV/conductivity/dissolved oxygen with 4-pole input
R3620	Controller for pH/mV/conductivity/dissolved oxygen/ion
R3624	Controller for pH/mV/conductivity/dissolved oxygen/ion with 4-pole input
FC3020T	2 channel flow cell with integrated Pt1000 temperature sensor and mounting accessories

→ Add -US for 120 VAC versions.

Measurement Channels	2
Temperature Channels	2
Controls	2
Solid State Relays	4
pH	-2.000...+16.000 pH
mV	±2000.0 mV
Free chlorine	0...10 mg/l
Conductivity	0...2000 mS/cm
Dissolved oxygen	0...60.00 mg/l
	0...600%
Air pressure	600...1300 hPa
Temperature	-5.0...+105.0°C
Digital output	RS485
Analogue output	4..20mA
Warranty	36 months
Made in Belgium	



One free chlorine channel
One temperature channel

● Description

R3630 controller series is based on the C3xxx series measurement system and has the same functionality. This controller also can measure free chlorine. The controller has 3 independent programmable control systems. All inputs, including temperature, can be used as input for the control system. After an unexpected mains interrupt, the controller will automatically continue with its task.

The system can control up to 4 solid state relay outputs and 2 4-20mA analogue outputs. Various control modes and safety features are provided.

Via a galvanic isolated RS485 interface it's possible to connect up to 31 controllers with a computer. Both software and communication protocol can be downloaded for free from our website.

A pre-programmable alarm function prevents overdosing of chemicals in the process liquid. Each time a pre-set level is exceeded the corresponding relay is closed and an alarm timer starts to count down. When the level is still exceeded after the count down, all relays will be opened and an alarm is given.

● Highlights

Multichannel up to 2 measurements can be performed at the same time and simultaneous or individually displayed on the screen. Measurement speed is 2Hz.

No interference between pH/ORP and conductivity electrodes in the same solution

Free chlorine control via a double platinum titration electrode.

Custom calibration tables allows the user to add complete buffer/standard-temperature relation tables. With this feature the built-in tables can be extended with your own tables. Tables can be entered via a device menu or uploaded from a PC.

LCD Display shows 2 channels at the same time including temperature and date/time.

Stability indicator algorithm ensures stable reading and visualisation of when measurement stabilised.

Selectable resolution for more stable readings for mV, pH and DO.

Capacitive compensation eliminates the capacitive component of the electrode and cable at low conductivity measurements.

Galvanic isolated RS485 interface eliminates ground loop effects when connected to a PC.

Galvanic isolated 4..20mA analogue output.

Control types: proportional, on/off

Safety Features:

- Stop the control (relays off) without stopping the measurements
- Automatic resume
- Washing program
- Programmable alarm

Pre-programmed standards pH: 1.68, 2.00, 4.00, 4.01, 6.87, 7.00, 9.18, 9.21, 10.01, 12.00, 12.45 (at 25°C)
Conductivity: 1413 µS/cm, 12.88 mS/cm, 111.8 mS/cm (at 25°C)

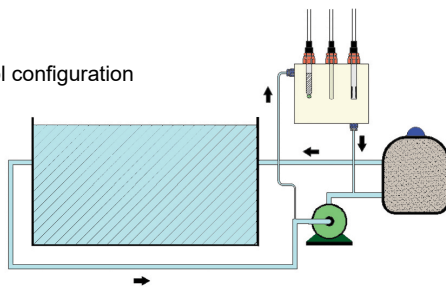
Free software and firmware updates downloadable from www.consort.be

Specifications

pH	Range	-2...+16 pH
	Resolution	0.001 pH
	Accuracy	0.1% ± 1 digit
	Calibration	1...5 points
	Buffers	11 pre-programmed 5 user specified
	Temperature compensation	-5...+105°C
	ISO-pH	6...8 pH
	Slope	80...120%
mV	Range	±2000 mV
	Resolution	0.1 mV
	Accuracy	0.1% ± 1 digit
	Calibration	1 point
CONDUCTIVITY	Range (cc dependent)	0...2000 mS/cm
	Resolution (cc dependent)	0.001 µS/cm
	Accuracy	0.5% f.s. of range
	Calibration	1...3 points
	Standards	3 pre-programmed 3 user specified
	Cell constant (cc)	0.1/1/10 cm ⁻¹ ±30%
	Temperature compensation	-5...+105°C
	Reference temperature	20° or 25°C
	Temperature coefficient	natural waters (EN27888)
	Capacitive compensation	✓
DISSOLVED OXYGEN	Range	0...60 mg/l (0...600%)
	Resolution	0.01 mg/l (0.1%)
	Accuracy	1% ± 1 digit
	Calibration	1 point
	Temperature compensation	0...50°C
	Salinity compensation	0...40
FREE CHLORINE	Range	0...10 mg/l
	Resolution	0.01 mg/l
	Accuracy	5% ± 1 digit
	Calibration	1 point
	pH compensation	5...9 pH
	Temperature compensation	10...40°C
	min. flow rate	20 cm/s

TEMPERATURE	Range	-5...+105°C	
	Resolution	0.1°C	
	Accuracy	0.1°C	
AIR PRESSURE	Range	600...1300 hPa	
	Calibration	1 point	
CHANNELS	Measurement	2	
	Free Chlorine	1	
INPUTS	Measurement	2 BNC, 10 ¹² Ω	
	Free chlorine	1 BNC	
	Temperature	1 BNC, for Pt1000	
CALIBRATION	Reminder	0...999 h	
	GLP	✓	
CONTROL	Independent controls	3	
	On/Off	✓	
	Proportional	✓	
	Wash program	✓	
	Alarm timer	✓	
	DISPLAY	LCD	128x64 pixels
ANALOG OUTPUTS	Two outputs	4...20 mA, max. 300 Ω load	
	COMMUNICATION	RS485, baud rate	300...19200 b/s
	DATA-LOGGING	Data sets	12000 + °C/date/time
	Modes	all	
	Interval	1 s...4 h	
RELAY OUTPUT	Four relays	4 solid state	
	Voltage	12...250 VAC/ min. 1 mA/ max. 1 A	
SECURITY	Identification number	✓	
	Password protection	✓	
AMBIENT CONDITIONS	Temperature	0...40°C	
	Humidity	0...95%, non condensing	
POWER SUPPLY	Mains	210...250 VAC, 50/60 Hz	
DIMENSIONS	WxDxH	28x17x6 cm	
WEIGHT	Meter	1.3 kg	

Swimming pool configuration



FC3020T flowcell with integrated T sensor

Ordering codes

Code	Description
R3630	Controller for pH/mV/conductivity/dissolved oxygen/free chlorine
FC3020T	2 channel flow cell with integrated Pt1000 temperature sensor and mounting accessories

→ Add -US for 120 VAC version.