



DOSING

multi-parameter controllers

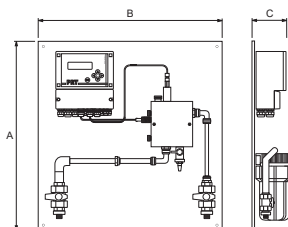
PRT pH CONTROLLER



Pre-assembled system with PRT controller and pH electrode, with a long-term stable reference system with gel electrolyte and additional salt deposit to extend useful life.

Model	Code	Measurement range (pH)	Resolution (pH)
PRT-1A pH ¹	10063080	0-14	0.01

Code ¹: Models usually in stock. For other models, please check the delivery time.



DIMENSIONS/MM

Model	A	B	C
PRT-1A	500	500	160

ELECTRODE CHARACTERISTICS:

pH electrode with a high-quality rod and a ceramic junction. Small contact surface to avoid ionic degradation of electrolyte. 100-mm glass electrode with a PG 13.5 mounting thread.

WORKING CONDITIONS:

pH range: from 0 to 14.
Working pressure: from 0 to 6 bar, without fluid hammer.
Working temperature: 1 - 50 °C, without crystals.
Fluid: drinking water.

CHARACTERISTICS:

Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 1 PID channel.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.



WE HAVE A WIDE RANGE OF SENSORS. PLEASE CONTACT OUR SALES DEPARTMENT.

Pre-assembled system with PRT controller and amperometric sensor with 3 membrane-covered electrodes. Detection of free chlorine with a constant pH value.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-1A CL-P 2 ¹	10063121	0.01 - 2.00	0.01
PRT-1A CL-P 5	10063122	0.01 - 5.00	0.01

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine), chlorine generated by electrolysis and organochlorides from isocyanuric acid (up to 500 mg/l of isocyanuric acid tested). Interference: detection of 100% chlorine dioxide (ClO₂). Ozone (O₃) can also be detected. Tolerance: limited tolerance of surfactants. Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method. The concentration of isocyanuric acid must be considered. Response time: 120 s approx. Start-up time: 2hr approx., the first time. Temperature compensation: integrated. Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 4 to 12.
Working pressure: from 0 to 0.5 bar, without fluid hammer.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water and sea water up to 50 mS/cm.

CHARACTERISTICS:

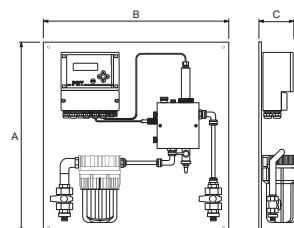
Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 1 PID channel.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

CHLORINE PRT (P) CONTROLLER

(Especially for swimming pools)



DIMENSIONS/MM

Model	A	B	C
PRT-1A	500	500	160

Pre-assembled system with PRT controller and amperometric sensor with 3 membrane-covered electrodes. Detection of free chlorine with low pH dependence and limited tolerance of surfactants for drinking water and sea water.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-1A CL-H 2	10063111	0.01 - 2.00	0.01
PRT-1A CL-H 5 ¹	10063112	0.01 - 5.00	0.01
PRT-1A CL-H 10	10063113	0.01 - 10.00	0.01
PRT-1A CL-H 20	10063114	0.01 - 20.00	0.01
PRT-1A CL-H 200	10063116	0.5 - 200.0	0.1

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine), chlorine generated by electrolysis. Interference: ozone (O₃) with a factor of 0.8 and chlorine dioxide (ClO₂) with a factor of 0.75. Tolerance: limited to surfactant agents. Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method. Response time: 120 s approx. Start-up time: 2hr approx., the first time. Temperature compensation: integrated. Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 4 to 9.
Working pressure: from 0 to 3 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water and sea water up to 50 mS/cm.

CHARACTERISTICS:

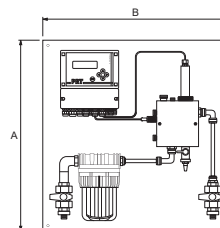
Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 1 PID channel.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

CHLORINE PRT (H) CONTROLLER

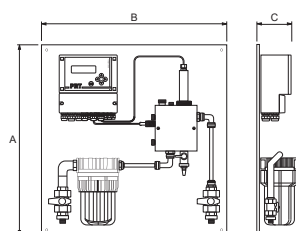
(Low pH dependence)



DIMENSIONS/MM

Model	A	B	C
PRT-1A	500	500	160

PRT CHLORINE DIOXIDE CONTROLLER



DIMENSIONS/MM

Model	A	B	C
PRT-1A	500	500	160

Pre-assembled system with PRT controller and amperometric sensor with 2 membrane-covered electrodes. Detection of chlorine dioxide for drinking water without pH dependence.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-1A ClO ₂ 0.5	10063200	0.005 - 0.500	0.001
PRT-1A ClO ₂ 2 ¹	10063201	0.05 - 2.00	0.01
PRT-1A ClO ₂ 5	10063202	0.05 - 5.00	0.01
PRT-1A ClO ₂ 10	10063203	0.5 - 10.0	0.01

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: chlorine dioxide (ClO₂).
Interference: ozone (O₃) or chlorine (Cl₂) with a factor of 0.03.
Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method.
Response time: 15 s approx.
Start-up time: 1hr approx, the first time.
Temperature compensation: integrated.
Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 1 to 11.
Working pressure: from 0 to 1 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water.

CHARACTERISTICS:

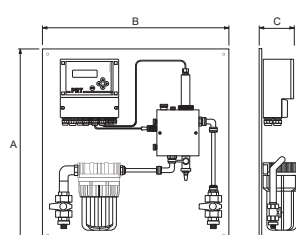
Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 1 PID channel.
Connection delay up to 60 min.
Temperature measurement with Pt100 and Pt1000.
Temperature coefficient up to 8.0%.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

PRT CHLORINE DIOXIDE (H) CONTROLLER

(with presence of chlorine)



DIMENSIONS/MM

Model	A	B	C
PRT-1A	500	500	160

Pre-assembled system with PRT controller and amperometric sensor with 2 membrane-covered electrodes. Detection of free chlorine dioxide without pH dependence and limited tolerance of surfactants for drinking water and sea water.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-1A ClO ₂ -H 0.5	10063210	0.005 - 0.500	0.001
PRT-1A ClO ₂ -H 2 ¹	10063211	0.05 - 2.00	0.01
PRT-1A ClO ₂ -H 5	10063212	0.05 - 5.00	0.01
PRT-1A ClO ₂ -H 10	10063213	0.05 - 10.00	0.01
PRT-1A ClO ₂ -H 20	10063214	0.05 - 20.00	0.01
PRT-1A ClO ₂ -H 200	10063216	0.5 - 200.0	0.1

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: chlorine dioxide (ClO₂).
Interference: Ozone (O₃) with a sensitivity 25 times greater than ClO₂. Chlorine (Cl₂) does not interfere.
Tolerance: surfactant agents.
Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method.
Response time: 90 s approx.
Start-up time: 1hr approx, the first time.
Temperature compensation: Integrated.
Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 1 to 11.
Working pressure: from 0 to 1 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water and sea water up to 50 mS/cm.

CHARACTERISTICS:

Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 1 PID channel.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

Pre-assembled system with PRT controller and amperometric sensor with 2 membrane-covered electrodes. Detection of hydrogen peroxide in high concentrations with surfactant tolerance.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-1A H2O2-H 200	10063412	0 - 200	0.1
PRT-1A H2O2-H 2000	10063413	0 - 2.000	1
PRT-1A H2O2-H 2%	10063414	0 - 20.000 (2%)	10
PRT-1A H2O2-H 5%	10063415	0 - 50.000 (5%)	100
PRT-1A H2O2-H 10%	10063416	0 - 100.000 (10%)	100

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: hydrogen peroxide (H_2O_2).
Interference: must not contain ozone (O_3), chlorine (Cl_2), PES, sulfites, or phenols in aqueous solution greater than 3%.
Tolerance: surfactant agents.
Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method.
Response time: 8 min. approx.
Start-up time: 3hr approx., the first time.
Temperature compensation: integrated.
Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 2 to 11.
Working pressure: from 0 to 1 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water.

CHARACTERISTICS:

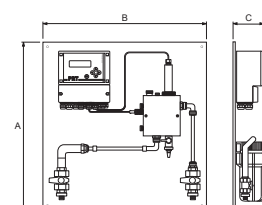
Supply voltage: 230 Vac \pm 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software 1 PID channel.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

PRT HYDROGEN PEROXIDE (H) CONTROLLER

(tolerance of surfactant agents)



DIMENSIONS/MM

Model	A	B	C
PRT-1A	500	500	160

Pre-assembled system with PRT controller and amperometric sensor with 2 membrane-covered electrodes. Detection of peracetic acid with surfactant tolerance and conductive acids.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-1A PAA-H 200	10063512	0 - 200	0.1
PRT-1A PAA-H 2000	10063513	0 - 2.000	1
PRT-1A PAA-H 2%	10063514	0 - 20.000 (2%)	10
PRT-1A PAA-H 5%	10063515	0 - 50.000 (5%)	100

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: peracetic acid (CH_3CO_3H).
Interference: ozone (O_3) with a factor of 2500 of its measurement value. Sulfuric, nitric, and phosphoric acid up to 1%.
Tolerance: surfactant agents.
Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD method.
Response time: from 1.5 to 5 min., depending on temperature.
Start-up time: 3hr approx., the first time.
Temperature compensation: integrated.
Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

Working pressure: from 0 to 1 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water.

CHARACTERISTICS:

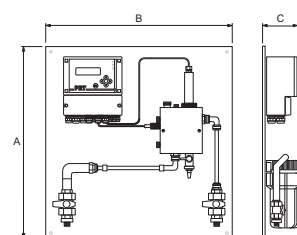
Supply voltage: 230 Vac \pm 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 1 PID channel.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

PRT PERACETIC ACID (H) CONTROLLER

(tolerance of surfactant agents)

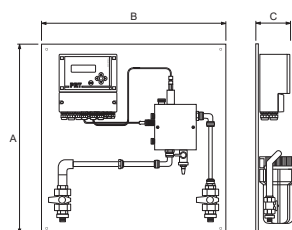


DIMENSIONS/MM

Model	A	B	C
PRT-1A	500	500	160

PRT pH/CHLORINE(P) CONTROLLER

(Especially for swimming pools)



Pre-assembled system with PRT controller, glass pH electrode and amperometric sensor with 3 membrane-covered electrodes. Detection of free chlorine with a constant pH value.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-2A pH/CL-P 2 ¹	10064121	0.01 - 2.00	0.01
PRT-2A pH/CL-P 5	10064122	0.01 - 5.00	0.01

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine), chlorine generated by electrolysis and organochlorides from isocyanuric acid (up to 500 mg/l of isocyanuric acid tested). Interference: detection of 100% chlorine dioxide (ClO₂). Ozone (O₃) can also be detected. Tolerance: limited tolerance of surfactants. Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method. The concentration of isocyanuric acid must be considered. Response time: 120 s approx. Start-up time: 2hr approx., the first time. Temperature compensation: integrated. Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 4 to 12.
Working pressure: from 0 to 0.5 bar, without fluid hammer.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water and sea water up to 50 mS/cm.

CHARACTERISTICS:

Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 2 PID channels.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.
pH measurement range from 0 to 14.

OUTPUTS:

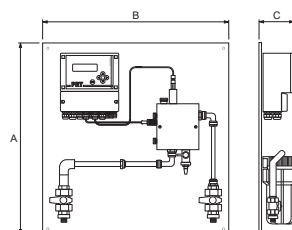
3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

DIMENSIONS/MM

Model	A	B	C
PRT-2A	500	500	160

PRT pH/CHLORINE (H) CONTROLLER

(low pH dependence)



Pre-assembled system with PRT controller, glass pH electrode and amperometric sensor with 3 membrane-covered electrodes. Detection of free chlorine with low pH dependence and limited tolerance of surfactants for drinking water and sea water.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-2A pH/CL-H 2	10064111	0.01 - 2.00	0.01
PRT-2A pH/CL-H 5 ¹	10064112	0.01 - 5.00	0.01
PRT-2A pH/CL-H 10	10064113	0.01 - 10.00	0.01
PRT-2A pH/CL-H 20	10064114	0.01 - 20.00	0.01
PRT-2A pH/CL-H 200	10064116	0.5 - 200.0	0.1

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine), chlorine generated by electrolysis. Interference: ozone (O₃) with a factor of 0.8 and chlorine dioxide (ClO₂) with a factor of 0.75. Tolerance: limited to surfactant agents. Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method. Response time: 120 s approx. Start-up time: 2hr approx., the first time. Temperature compensation: integrated. Maintenance: Replacement of electrolyte after 3 to 6 months and the membrane every year.

CHARACTERISTICS:

Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 2 PID channels.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.
pH measurement range from 0 to 14.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

WORKING CONDITIONS:

pH range: from 4 to 9.
Working pressure: from 0 to 3 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water and sea water up to 50 mS/cm.

DIMENSIONS/MM

Model	A	B	C
PRT-2A	500	500	160

Pre-assembled system with PRT controller, glass pH electrode and amperometric sensor with 2 membrane-covered electrodes. Detection of chlorine dioxide for drinking water without pH dependence.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-2A pH/CIO ₂ 0.5	10064200	0.005 - 0.500	0.001
PRT-2A pH/CIO ₂ 2 ¹	10064201	0.05 - 2.00	0.01
PRT-2A pH/CIO ₂ 5	10064202	0.05 - 5.00	0.01
PRT-2A pH/CIO ₂ 10	10064203	0.05 - 10.00	0.01

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: chlorine dioxide (ClO₂).
Interference: ozone (O₃) and chlorine (Cl₂) with a factor of 0.03.
Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method.
Response time: 15 s approx.
Start-up time: 1hr approx, the first time.
Temperature compensation: integrated.
Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 1 to 11.
Working pressure: from 0 to 1 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water.

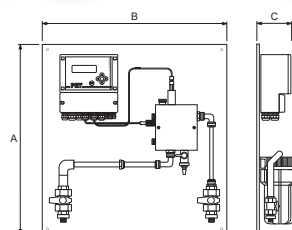
CHARACTERISTICS:

Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption 20 W.
Protection: IP65.
Regulation software: 2 PID channels.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.
pH measurement range from 0 to 14.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

PRT pH/CHLORINE DIOXIDE CONTROLLER



DIMENSIONS/MM

Model	A	B	C
PRT-2A	500	500	160

Pre-assembled system with PRT controller, glass pH electrode and amperometric sensor with 2 membrane-covered electrodes. Detection of free chlorine dioxide without pH dependence and limited tolerance of surfactants for drinking water and sea water.

Model	Code	Measurement range (ppm)	Resolution (ppm)
PRT-2A pH/CIO ₂ -H 0.5	10064210	0.005 - 0.500	0.001
PRT-2A pH/CIO ₂ -H 2 ¹	10064211	0.05 - 2.00	0.01
PRT-2A pH/CIO ₂ -H 5	10064212	0.05 - 5.00	0.01
PRT-2A pH/CIO ₂ -H 10	10064213	0.05 - 10.00	0.01
PRT-2A pH/CIO ₂ -H 20	10064214	0.05 - 20.00	0.01
PRT-2A pH/CIO ₂ -H 200	10064216	0.5 - 200.0	0.1

Code ¹: Models usually in stock. For other models, please check the delivery time.

CHARACTERISTICS OF THE SENSOR:

Measurement magnitude: chlorine dioxide (ClO₂).
Interference: ozone (O₃) with a sensitivity 25 times greater than chlorine dioxide (ClO₂). Chlorine (Cl₂) does not interfere.
Tolerance: surfactant agents.
Calibration: in the controller once a month by means of analytical determination of chlorine based on DPD-1 method.
Response time: 90 s approx.
Start-up time: 1hr approx, the first time.
Temperature compensation: integrated.
Maintenance: replacement of electrolyte after 3 to 6 months and the membrane every year.

WORKING CONDITIONS:

pH range: from 1 to 11.
Working pressure: from 0 to 1 bar, without fluid hammers.
Working temperature: 1 - 45 °C, without crystals.
Fluid: drinking water and sea water up to 50 mS/cm.

CHARACTERISTICS:

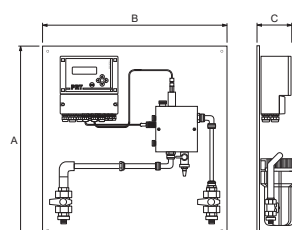
Supply voltage: 230 Vac ± 10%, 50/60 Hz.
Consumption: 20 W.
Protection: IP65.
Regulation software: 2 PID channels.
Connection delay up to 60 min.
Temperature measurement with Pt100 or Pt1000.
Temperature coefficient up to 8.0%.
pH measurement range from 0 to 14.

OUTPUTS:

3 - Potential-free alarm relay.
2 - Digital frequency output for dosing pumps.
2 - Analog 0/4-20 mA, galvanically isolated.
1 - Modbus slave RTU, galvanically isolated.
1 - SD card slot for logs.

PRT pH/CHLORINE DIOXIDE (H) CONTROLLER

(with presence of chlorine)



DIMENSIONS/MM

Model	A	B	C
PRT-2A	500	500	160