



2D20+ is a DUAL microprocessor based series with digital controls and LCD display. Easy Programming, reliable measurements, and versatile features to control other external equipment. 2D20+ series provides excellent quality/price features and versatility for various application duties.

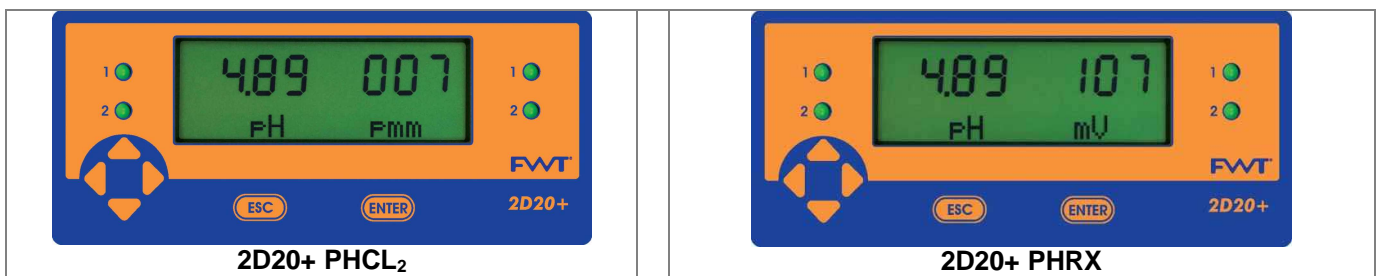
2D20+ enclosed into ABS plastic water and fire-proof housing for wall mounting.

Measuring parameters

2D20+ is available in all combinations with reference to:
PH, Redox, free Chlorine (on request Conductivity measurements)

MAIN FEATURES

- Large custom LCD display alphanumeric 3 ½ digit
- 2 independent Set-points ON-OFF with 2 voltage free outputs
- Alarm output for over-dosing time (in place of 1 set point)
- Suitable to host a contact from Proximity switch
- 4÷20mA proportional output for dosing pump or data recorder
- Proportional time / pause output (PWM)
- Universal power supply 100÷240 Vac or 9÷24Vdc
- Latest CPU and data logging storage programming
- Menu programming
- 4÷20 mA output for chart recorder
- Galvanic isolation for mA outputs
- Programmable Hysteresis and Delay



TECHNICAL CHARACTERISTICS

	D20+PH	D20+CL*	D20+RX	D20+CD			
Range:	0÷14.00pH	0÷10.00ppm	0÷1000mV	0÷10.00 mS	0÷1000 µS	0÷100.0mS	0÷100.0 µS
Resolution ¹ :	± 0,01 pH	± 0,01 ppm	± 1 mV	10uS	1 µS	100uS	0,1 µS
Hysteresis ² :	0,05 pH	0,05 ppm	5 mV	50uS	5 µS	0,5mS	0,5 µS
Zero ² :	± 10%	± 20% ²	± 20%	± 10%	± 10%	± 10%	± 10%
Gain ³ :	± 25%	± 20%	-----	± 25%	± 25%	± 25%	± 25%
Connections:	BNC	0,05 ppm	BNC	CDK1 probe	CDK5 probe	CDK1 probe	CDK5 probe
Input probes:	10 ¹² Ohm electrode	wiring terminal	10 ¹² Ohm electrode	wiring terminal			

*Free or Total chlorine: PR96+Cl₂ can either work with membrane sensors CLS or open cells CLC series

1-Resolution: display resolution

2-Zero: excursion adjustment from calibration point. NOTE: membrane sensors CLS don't need Zero calibration

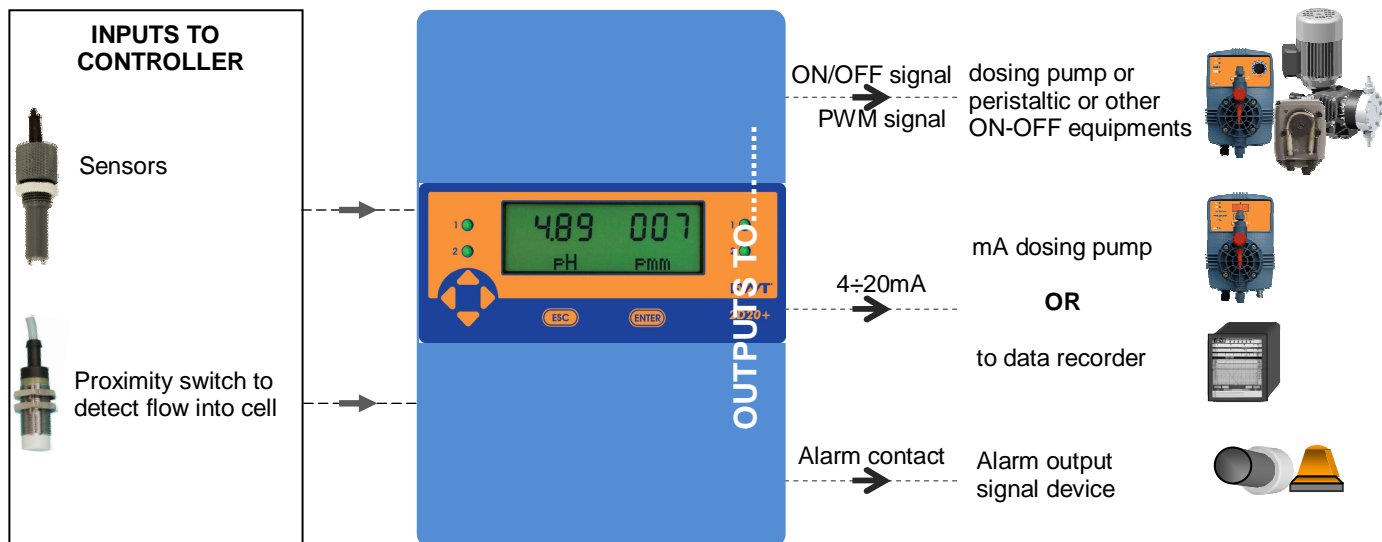
3-Gain calibration: electrode adjustment gain

CONTROLLERS

PROGRAMMING FUNCTIONS

Set-Points ON-OFF mode	Output Relay 1 Output Relay 2	2 set-points ON-OFF	Independent setting to activate Constant / ON-OFF mode dosing pumps or other On-Off equipment.
		Threshold	adjusts set-point value (ON-OFF mode)
		Hysteresis	It selects a measuring range around set-point value, blocking output relays (ON-OFF mode)
		Delay	It selects a delay time (99 seconds adjustable) before activating relay output.
		Reverse	It selects output relay working direction: reverse=ON - direct=OFF
		PWM Proportional mode with modular pulses output mode (time/pause)	Proportional time/pause pulses output will activate a Constant / ON-OFF mode dosing pumps or peristaltic or other ON-OFF equipment.
mA output signal	mA output	Allows to select measurement value corresponding to mA output analogical signal. It activates a dosing pump suitable to process a remote mA signal or to activate a chart recorder or a Data logger.	
System Settings	Fluximeter	It activates (ON) or deactivates (OFF) flow switch (proximity switch) input.	
	Manual temperature	It selects manual temperature compensation 0÷100°C (only PH or CD)	

2D20+ INPUTS / OUTPUTS FUNCTIONS



OTHER TECHNICAL CHARACTERISTICS

Microprocessor technology:	SMD components mounting, digital controls keypad 6 key	
Linearity, Stability Reproducibility:	± 0,2% under standard conditions	
Display:	4 digits+alphanumeric line, back-lit, display resolution ±0,01 pH	
Delay:	max 99 sec., delay programmable for each set-point	
Input impedance mA output:	Max 400 Ohm / mA outputs with galvanic isolation	
Power supply:	Universal power supply 100÷240Vac or 9÷24Vdc	
Power consumption:	5W	
Fuse	1 fuse 315 mA slow blowing; PW96+ internal / PR96+ rear side	
Temperature setting:	Manual compensation with probe STE2N 0÷100°C (only PH-CD)	
Level/Remote relay control (only PW96+)	Chemical additive level or Remote control to block relays outputs	
Outputs:	Output RELAY 1	Contact voltage free or Proportional pulses (PWM) 5Amax 230Vac
	Output RELAY 2	Contact voltage free or Proportional pulses (PWM) 5Amax 230Vac
	PWM mode	Time/pause proportioning mode for each set point
	FLUX sensor (proximity)	it blocks output operations in case of no flow into the sensor cell
	Resistive load	5A max 230 V AC
	Inductive load	1A 230 V AC
	mA1 output	for mA dosing pump or equipment able to process mA signal
	mA2 output	for recorder or data logger
Enclosure:	Material – Protection PW96+	Plastic ABS-V0 fire-proof – IP65, with wired connections IP56
	Front controls	Polycarbonate adhesive
	Working temperature	0÷50 °C

