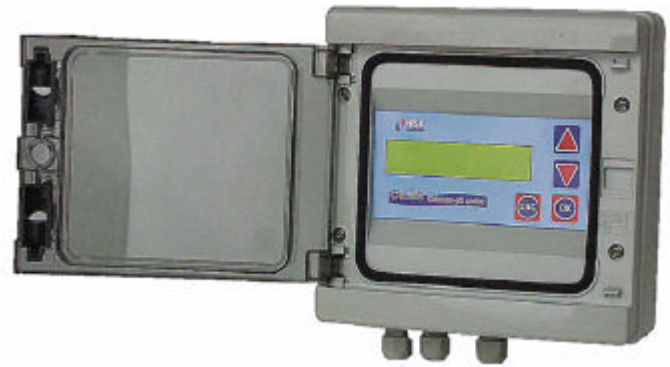


CHARACTERISTICS

- Free Chlorine Measure
- pH Measure
- Temperature Measure
- Relay Output for Chlorine and pH regulation
- Current outputs (optional)
- Test functions on relays and on the analog output
- Supply 115 / 230Vac 50Hz
- Electronic stage IP65
- Remote Hydraulic stage with respect to Electronic Unit



APPLICATIONS

- ✓ Generic water treatment
- ✓ Industrial water treatment
- ✓ Swimming Pool water treatment

The instrument **CL30** is a multi-parametric analyzer of free Chlorine, of pH and of temperature. It is a microprocessor driven equipment and it has an alphanumeric display and thus it allows an intuitive and immediate setup procedure. Moreover, due to a large back-illuminated display, the visualization of the measure results is visible from large distances in both well illuminated and scarcely illuminated areas. The electronics of **CL30** is remote with respect to the hydraulic equipment up to 50m by means of a common three-wire low voltage cable. This flexibility permits to collocate the electronic stage nearby to the command electric panels saving on electrical connections and it permits to collocate the electronic equipment in safer points whereas the hydraulic equipments is exposed to extreme humidity as well as very high/low temperatures. The **CL30** uses the “open light” photometric cell system for the free chlorine measure which allows to guarantee an almost perfect linearity and repeatability also for high chlorine concentrations. The pH measure is performed by an electrode in mono-tube glass (EG100) and it is thermally compensated by means of an NTC sensor. The instrument is equipped with two different set points for free Chlorine and one for the pH measure; for each set point it is possible to set On and Off values in order to set the working procedure as well as the set point hysteresis. It is present also a cumulative alarm relay which regards: set point timeout, lack of analyzed water, end of reagent, dirty cell and burnt led. Optionally it is possible to have a module consisting of four current outputs galvanically separated for measures repeating, a serial module RS485 for network connection to an host, a measure module for combined Chlorine. The instrument supply can be switched from 230Vac to 115Vac by setting up some jumpers located internally to the case.

Characteristics of free Chlorine meter

Measure principle	One-Ray Photometric
Reaction type	DPD Photometric Reaction
Reagent Dosimetric System	Multichannel Peristaltic Pump
Measure Cell	“Open Light” – Realized with plexiglass
Emit ter	Narrow Peak Led 515nm
Sensor	Photobattery compliant to ROHS normative
Measure Field	0.00÷5.00 ppm free Chlorine (Cl ₂)
Resol uti on	± 0.01 ppm Cl ₂
Accur acy	± 2% measured value
Repeatabi lity	98%
Analysi Timi ng	Programmable, from 2 min to 30 min (max), steps of 1 min.

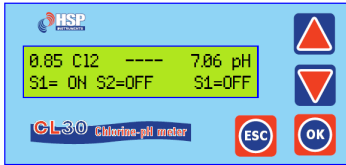
Characteristics of pH meter

<i>Measure principle</i>	Potentiometric
<i>Measure Field</i>	0.00 ÷ 14.00 pH
<i>Conducibilità Resolution</i>	± 0.01pH
<i>Accuracy</i>	± 1% of measured value
<i>Repeatability</i>	98%
<i>OFF-SET Correction</i>	± 2 pH units (±110mV)
<i>Asymmetry Correction</i>	45 ÷ 70 mV/pH
<i>Input Impedance</i>	10 GΩm
<i>Polarization Current</i>	< 1 pA
<i>Calibration</i>	By software on 2 points
<i>Compensation Range</i>	0 ÷ 100°C

Characteristics of Temperature Meter

<i>Measure principle</i>	Termoresistive
<i>Sensor</i>	NTC
<i>Measure Field</i>	0.0 ÷ 50.0°C
<i>Conducibilità Resolution</i>	± 0.1°C
<i>Accuracy</i>	± 1% F.S.
<i>Repeatability</i>	99%

Characteristics of Electronics

<i>Visualization</i>	Display 2x16 Characters alphanumeric back-illuminated	
<i>Programming keyboard</i>	4 function keys with tactile sensation	
<i>Digital Outputs</i>	# 2 Relay ON/OFF for free Chlorine # 1 Relay ON/OFF for pH (max power 1A 230Vac resistive load)	
<i>Alarm output</i>	# 1 Relay ON/OFF cumulative (max power 1A 230Vac resistive load)	
<i>Digital input</i>	Nr. 1 Active for dosage disabilitation	
<i>Leak of water</i>	Half scale of thermal sensor	
<i>Operation temperature</i>	5 ÷ 55°C umidity 95° non condensed	
<i>Supply</i>	115V/230V – 50Hz (Manual Set Up)	
<i>Fuse</i>	330mA–Rit (type 5x20mm)	
<i>Absorption</i>	10 VA Max to 230Vac	

Characteristics of Hydraulics

<i>Hydraulics Support</i>	Inox with anti-acid painting
<i>Electronic connection cable</i>	Three-wire cable, 3x0.5mm, supplied 5m long, max distance 50m
<i>Water network connection</i>	Female connection, 1/4" Gas
<i>Drain</i>	Gravity, tube PVC-DN25 Analysis and measure drain can be separated
<i>Flux regulation</i>	Automatic in the range of 0.2÷1.0 Atm
<i>Reagent Fill Up</i>	Manual, by acting on the proper button
<i>Analysis liquid temperature</i>	15 ÷ 40°C
<i>Operating Temperature</i>	10 ÷ 45°C

Characteristics of Case

<i>Fixing</i>	Wall
<i>Dimensions wxhxd</i>	215 x 210 x 100 mm
<i>Case Description</i>	White Plastic with smoking gray door
<i>Protection</i>	IP65
<i>Weight</i>	0.5Kg

Characteristics of Hydraulics Case

<i>Fixing</i>	Wall
<i>Dimensions wxhxd</i>	300 x 400 x 150 mm

Reagents

- DPD_CLB Reagent KITs for free Chlorine
Composed by 2 bottles 1000ml (DPD1_R + DPD2_BL)
- DPD3_BC Reagent for combined Chlorine Combination
Bottle 1000ml

Opzionalis

- CL30_MA
Module for 4 current outputs 0–20mA / 4–20mA for remote control links, recorders, dosimetric systems, etc...
- CL30_485
Serial Module RS485 for network connections (single point or multipoint) with Host system for measure acquisition, instrument setting, real-time analyzer state monitoring, etc...
- CL30_C
Combined Chlorine measure implementation.