

YSI 6820

Self-cleaning turbidity sensor

Stirring-independent dissolved oxygen

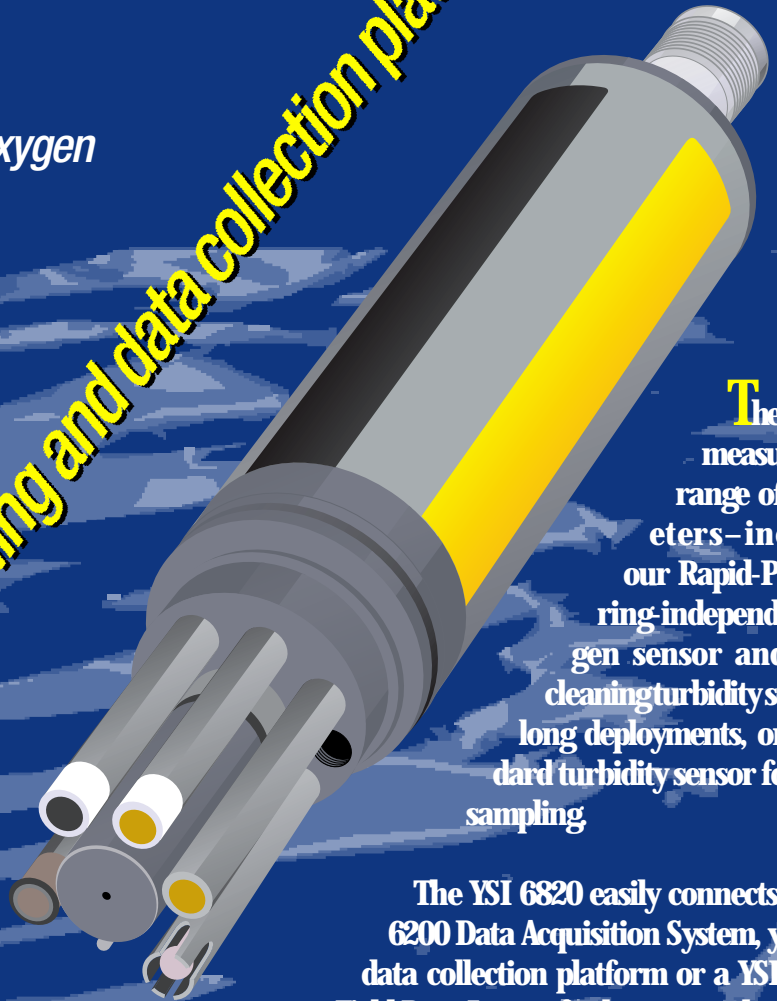
Field-replaceable probes

*Easy connection to
data collection platforms*

*3 ISEs simultaneously
plus pH and ORP*

ammonium–nitrogen
dissolved oxygen
nitrate–nitrogen
non-vented level
temperature
conductivity
vented level
ammonia
turbidity
chloride
salinity
ORP
pH

A compact sonde for field sampling and data collection platforms



The YSI 6820 measures a full range of parameters—including our Rapid-Pulse stirring-independent oxygen sensor and a self-cleaning turbidity sensor for long deployments, or a standard turbidity sensor for simple sampling.

The YSI 6820 easily connects to a YSI 6200 Data Acquisition System, your own data collection platform or a YSI 610-DM Field Data Logger for long-term deployment. Or use the YSI 610-D Display for sampling.

Ten at a time

You can measure ten parameters simultaneously.

Data analysis with Windows

Data analysis is simple when you use EcoWATCH for Windows. You'll see the whole picture with a single program, obtain statistics easily and be able to run large studies.

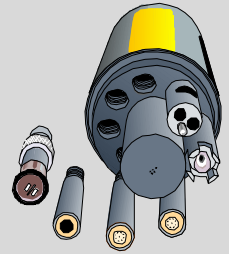


Typical performance specifications

Dissolved oxygen % saturation	Range Resolution Accuracy	0 to 500% 0.1% 0 to 200%: ±2% air sat; 200 to 500%: ±6% air sat
Dissolved oxygen mg/L	Range Resolution Accuracy	0 to 50 mg/L 0.01 mg/L 0 to 20 mg/L: ±0.2 mg/L; 20 to 50 mg/L: ±0.6 mg/L
Conductivity	Range Resolution Accuracy	0 to 100 mS/cm 0.001 to 0.1 mS/cm (range-dependent) ±0.5% of reading + 0.001 mS/cm
Temperature	Range Resolution Accuracy	-5 to +45°C 0.01°C ±0.15°C (±0.05°C optional configuration)
pH	Range Resolution Accuracy	0 to 14 units 0.01 unit ±0.2 unit
Vented level with higher accuracy	Range Resolution Accuracy	0 to 30 feet (0 to 9 m) 0.001 feet (0.0003 m) ±0.01 feet (0.003 m)
Medium depth	Range Resolution Accuracy	0 to 200 feet (0 to 61 m) 0.001 foot (0.001 m) ±0.4 foot (±0.12 m)
Shallow depth	Range Resolution Accuracy	0 to 30 feet (0 to 9 m) 0.001 foot (0.001 m) ±0.06 foot (±0.02 m)
ORP	Range Resolution Accuracy	-999 to +999 mV 0.1 mV ±20 mV
Salinity	Range Resolution Accuracy	0 to 70 PPT 0.01 PPT ±1% of reading or 0.1 PPT, whichever is greater
Nitrate-nitrogen	Range Resolution Accuracy	0 to 200 mg/L-N 0.001 to 1 mg/L-N (range-dependent) ±10% of reading or 2 mg/L, whichever is greater
Ammonium-nitrogen	Range Resolution Accuracy	0 to 200 mg/L-N 0.001 to 1 mg/L-N (range-dependent) ±10% of reading or 2 mg/L, whichever is greater
Ammonia	Range Resolution Accuracy	0 to 200 mg/L-N 0.001 to 1 mg/L-N (range-dependent) ±10% of reading or 2 mg/L, whichever is greater
Turbidity	Range Resolution Accuracy	0 to 1,000 NTU 0.1 NTU ±5% of reading or 2 NTU, whichever is greater
Chloride	Range Resolution Accuracy	0 to 1000 mg/L 0.001 to 1 mg/L (range-dependent) ±15% of reading or 5 mg/L, whichever is greater

YSI 6820

with field-replaceable probes



YSI 6820 instrument

Medium: Fresh, sea or polluted water

Temperature: -5 to +45°C

Computer interface: RS232, SDI-12

Software: PC-compatible, DOS 3.0 or above; 256K RAM minimum. Graphics card recommended
EcoWATCH for Windows 3.1 included:

PC-compatible, 3.5" disk drive, 386 processor or better running Windows 3.1 or later, 4 MB RAM minimum.

Size: 2.86" dia, 13.5" long, 5 LBS (7.3 cm dia, 34.3 cm long, 2.3 KG)

External power supply: 12 VDC

YSI 610 displays & loggers

Size: 8" L x 3.7" W x 1.8" H, 1.3 LBS

(20.3 cm L x 9.4 cm W x 4.6 cm H, 0.6 KG)

Keypad: 45-key membrane

Display: High-resolution 8 x 20 LCD; displays up to 12 parameters simultaneously

Physical: IP65 rating (NEMA 4)

Power: Internal rechargeable nickel metal hydride battery pack (supplies power to YSI 6820).

8 hours continuous operation.

Memory: battery-backed RAM

YSI 610-D: 32K for stash, notepad and weather.

YSI 610-DM: 128K (optional 512K) for stash, continuous data logging and upload. Easy transfer of files to a PC using EcoWATCH for Windows or Xmodem.

For more information or our new water quality monitoring catalog,

contact us at **800 897-4151**

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