

270-WQ Water Quality Sensors

Vj g'270-WQ101 Submersible Temperature Sensor'ku'c twi i gf 'tgrkcdrg'y cvgt 'lgo r gtcwtg'b gcuwtkpi 'f gxleg0Vj g



lgo r gtcwtg'tcpuo kvgt'r tqdg'ku'bo qrf gf vq'47)q'h'bo ctkpg'i tcf g'ecdrng.'y kj 'rgpi vj u'wr 'vq'722)cxckcdrg0Vj g'lgo r gtcwtg ugpuqt'j cu'c'y q'y ktg'eqphki vtcvkqp'ht

o plko wo 'evttgpy'f tcy 0Vj g'lgo r gtcwtg'tcpuo kvgt'au grgextqpleu'ctg'eqo r rvgnt'gpecr uwrvgf 'lp'bo ctkpg'i tcf g gr qz { 'y kj lp'c'uvclpiguu'uvgnlj qwukpi 0

Output: 4-20 mA
 Range: -58 to 122°F (-50 to 50°C)
 Accuracy: ± 0.2°F or ± 0.1°C
 Maximum pressure: 200 psi
 Operating voltage: 10-36 Vdc
 Current draw: Same as sensor output
 Warm-up time: 5 seconds minimum
 Operating temperature: -58 to 122°F (-50 to 50°C)
 Size of probe: 3/4" diameter x 4-1/2" long (1.9 cm x 11.4 cm)
 Weight: 8 ounces (227 g)

Ordering Information

270-WQ101 Temperature Sensor, includes 25' cable
 270-WQEXC Extra Cable, over included cable length, up to 500'

Vj g'270-WQ-COND Conductivity Sensors ctg'lvkcdrg'ht o gcuwtkpi 'eqpf vevkxk'lp'c'y kf g'xctkgv' q'h'ic r rdecvkpu lpenf'kpi 'itdqtcvtlgu' utgco u'lkgtu'cpf' i tqwpf y cvgt0Vj g eqpf vevkxk' 'ugpuqt'au'lo cmllk' g'cpf' twi i gf 'j' qwukpi 'o cng'lv wghvrlht'j cpf 'j' grf 'o gcuwtgo gpv'ht' r gto cpgpv'kpu'ncv'kqp0

Conductivity Range: 0 to 200 µS/cm, 200 to 2000 µS/cm, 2 to 20 mS/cm, 20 to 200 mS/cm, 200 to 2000 mS/cm
 Conductivity Resolution: 0.1 µS/cm, 1 µS/cm, 0.01 mS/cm, 0.1 mS/cm, 1 mS/cm
 Conductivity Accuracy: +0.5% of reading
 Temperature Range: 23 to 158°F (-5 to 70°C)
 Temperature Resolution: 0.02°F (0.01°C)
 Temperature Accuracy: +0.4°F (0.2°C)
 Temperature Compensation: automatic (2%/°C normalized to 25°C)
 Temperature Response: 99% in <20 seconds
 Output: Dual 4-20 mA (Conductivity and Temperature)
 Maximum Pressure: 35 psi (82 ft (25m))
 Immersion Depth: 1.4 inches (36 mm)
 Operating Voltage: 10-36 Vdc
 Current Draw: 20 mA plus sum of both sensor outputs
 Warm Up Time: 12 seconds minimum
 Operating Temperature: 23 to +158°F (-5 to +70°C)
 Storage Temperature: -4 to +212°F (-20 to +100°C)
 Dimensions: 0.86" diameter x 8" long (2.2 cm x 202 mm)
 Weight: 8 oz (227 g) plus cable

Ordering Information

270-WQ-COND Conductivity Sensor, includes 25' cable
 Specify conductivity sensor range when ordering
 270-WQEXC Extra Cable, over included cable length, up to 500'

Vj g'270-WQ201 pH Sensor'ku'c'twi i gf 'tgrkcdrg'y cvgt'r J



o gcuwtkpi 'f gxleg0Vj g'r J 'tcpuo kvgt ku'bo qwpvgf 'qp'47)q'h'bo ctkpg'i tcf g'ecdrng.'y kj 'rgpi vj u'wr 'vq'722)cxckcdrg qp'tgs wgu0Vj g'r J 'ugpuqt'qwr w'ku 6/42'b C'y kj 'c'y tgg'y ktg'eqphki vtcvkqp0

Vj g'r J 'tcpuo kvgt'au'grgextqpleu'ctg'eqo r rvgnt'gpecr uwrvgf 'lp'bo ctkpg'i tcf g'gr qz { 'y kj lp'c'uvclpiguu'uvgnlj qwukpi 0 Vj g'r J 'tcpuo kvgt'cnuq'wugu'c'tgo qxcdrg'uj kgrf 'cpf tgr'ecgdrng't J 'ugpuqt'grgo gpv'ht'gcu' 'b clpvgcpeg0

Output: 4-20 mA
 Range: 0-14 pH
 Accuracy: 2% of full scale
 Maximum pressure: 40 psi
 Operating voltage: 10-30 Vdc
 Current draw: 5.5 mA plus sensor output
 Warm-up time: 3 seconds minimum
 Operating temperature: 23 to +131°F (-5 to +55°C)
 Size of probe: 1-1/4" diameter x 10" long (3.2 cm x 25.4 cm)
 Weight: 1 lb (454 g)

Ordering Information

270-WQ201 pH Sensor, includes 25' cable
 270-WQEXC Extra Cable, over included cable length, up to 500'

Vj g'270-WQ401 Dissolved Oxygen Sensor'ku'c'twi i gf



tgrkcdrg'y cvgt'qz { i gp'rgxgn'bo gcuwtkpi f gxleg0Vj g'f kuqrxgf 'qz { i gp'ugpuqtu'ctg cvcej gf 'vq'47)q'h'bo ctkpg'i tcf g'ecdrng.'y kj 'rgpi vj u'wr 'vq'722)cxckcdrg'wr qp tgs wgu0Vj g'f kuqrxgf 'qz { i gp'ugpuqt

qwr w'ku'6/42'b C'y kj 'c'y tgg'y ktg'eqphki vtcvkqp0Vj g'f kuqrxgf 'qz { i gp'ugpuqt'au'grgextqpleu'ctg'eqo r rvgnt'gpecr uwrvgf 'lp'bo ctkpg'i tcf g'gr qz { 'y kj lp'c'uvclpiguu'uvgnn j qwukpi 0Vj g'f kuqrxgf 'qz { i gp'ugpuqt'wugu'c'tgo qxcdrg'uj kgrf 'cpf' f'kuqrxgf 'qz { i gp'grgo gpv'ht'gcu' 'b clpvgcpeg0

Output: 4-20 mA
 Range: 0-100% saturation, 0-8 ppm, temperature compensated to 25°C
 Accuracy: ± 0.5% of full scale
 Maximum pressure: 40 psi
 Operating voltage: 10-36 Vdc
 Current draw: 15.5 mA plus sensor output
 Warm-up time: 10 seconds minimum
 Operating temperature: -40 to +131°F (-40 to +55°C)
 Size of probe: 1-1/4" diameter x 11" long (3.2 cm x 27.9 cm)
 Weight: 1 lb
 Membrane: 0.001 FEP Teflon (standard)
 Combined error: 2% FS

Ordering Information

270-WQ401 Dissolved Oxygen Sensor, includes 25' cable
 270-WQEXC Extra Cable, over included cable length, up to 500'

270-WQ Water Quality Sensors

Vj g' **Model 270-WQ730 Turbidity Sensor** 'ku'c'j ki j nq ceewtcvg'lwdo gtukdr'kputwo gpv'ht'gp'xtkqpo gpvcnqt r tqegu'o qpkqt'kpi 0Cr r nec'kpu'kpenf g'y cvgt's wcrk'f y'gukpi 'cpf' b' cpci go gpv'tkxgt' b' qpkqt'kpi . 'lntgco o gcuwtgo gpv'tgugtxqk't'y cvgt's wcrk'f 'y'gukpi . 'i tqwpf y cvgt y'gukpi . 'y cvgt'cpf 'y' cuxy cvgt'tgco gpv'cpf 'ghwgpv'cpf kpf wut'knleqpv'tq'0k'p'ceeqt'f cpeg'y kj 'WUGRC' O gy qf '3: 208 hqt'wtdk'k'f 'b' gcuwtgo gpv'j' g'wtdk'k'f 'ugpuqt'ku'c'; 2 f gi tgg'uecwt'pgr j g'yo gvt'0Vj g'ugpuqt'f'k'geu'c'hqewgf d'gco 'kpv'j' g'b' qpkqt'g'y cvgt'0Vj g'iki j v'dgco 'tgh'geu'q'lh r ct'v'ngu'k'p'j' g'y cvgt'cpf 'j' g't'guwncp'v'iki j v'k'p'g'puk'f 'ku o gcuwt'gf' 'd' 'c' r' j qv'f g'vevqt' r' qukk'q'p'gf 'c'v'; 2'f gi tgg'u'q'j' g' r'ki j v'dgco 0Vj g'f' g'vev'f' 'iki j v'k'p'g'puk'f 'ku'f' k'geu'f r' tqr'qt'v'q'p'ri'q'j' g'wtdk'k'f 'q'h'j' g'y cvgt'0Vj g'wtdk'k'f 'ugpuqt w'k'k' gu'c' 'ugeq'p'f 'iki j v'f' g'vev'q't' 'q' 'eqt'ge'v'ht' 'iki j v'k'p'g'puk'f x'ct'k'v'q'pu' 'eq'rt' 'ej' cpi gu' 'cpf' 'b' k'p'qt' 'h'g'pu' 'h'q'w'k'pi 0



Vj g' **Model 270-WQ770-B Turbidity Meter** 'eqo d'k'p'u'j' g wtdk'k'f 'ugpuqt'f' g'uet'k'd'g'f' 'cd'q'x'g'y kj 'c'j' cpf j' g'f' 'b' gvt'j' cv j' cu'c' '8' / f' ki k'NGF 'uet'ggp. '6' / d'w'w'q'p' 'eq'p't'q'n'r' c'p'gn' 'cpf' 'cp' k'p'g't'p'c'n'i'; X' d'c'w'g't' { 0Vj g'j' cpf j' g'f' 'r' q't'v'c'd'g'y' cvgt' 'b' gvt' 'e'c'p' d'g' 'w'g'f' 'h'q't' 'g'p'k'x't'q'p'o' gpvcnqt' r' t'q'egu' 'u'k'g'u'j' cv'f' q' 'p'q'v't'g's' v'k't'g' r' g't'o' c'p'g'p'v'o' q'p'k'q't'k'pi 0Vj g'o' gvt' 'y' k'n'if' k'ur' r'c' { 't'g'c'f' k'pi' u' f' k't'g'ev'f' 'k'p' 'g'k'j' g't' 'p'g'r' j' g'yo g't'le' 'w't'd'k'k'f' 'w'p'ku' 'P' 'V'W' 'q't' r' ct'v' 'r' g't' 'b' k'n'k'q'p' 'RRO' +0Vj g'o' gvt' 'c'nu'q' 'k'p'en'f' gu' 'cp' c'w'q'o' c'v'e' 'l'j' w'q'h'ih'g'c'w't'g' 'q' 'eq'p'ug't'x'g' 'd'c'w'g't' { 'r' q'y' g't'0

- Range:
 - Sensor 0-50 NTU and 0-1000 NTU
 - Meter 0-50 NTU or 0-1000 NTU selectable
- Accuracy: ± 1% of full scale
- Meter Resolution: 12 bit
- Output: 4-20mA (sensor, both ranges), LED screen (meter)
- Method: Nephelometer with correction
- Operating voltage: 10-36 Vdc @ 40 MS (sensor)
- Internal 9Vdc battery (meter)
- Current draw: 30 mA plus sensor output (sensor)
- Warm-up time: 5 seconds minimum (sensor)
- Operating temperature:
 - Sensor 14 to 122°F (-10 to +50°C)
 - Meter 32 to 122°F (0 to +50°C)
- Materials: 306 stainless steel, delrin, polyurethane jacketed cable
- Maximum pressure: 30 psi
- Light source: Infrared LED, (880nm)
- Cable length: Sensor=25' standard (optional to 500')
- Size: Sensor= 1-1/2" dia x 8.5" long (3.8 cm x 21.6 cm)
- Weight: 1 lb (454 g) (sensor); 2 lbs (907 g) (meter+sensor)

Ordering Information

- 270-WQ730 Turbidity Sensor, includes 25' cable
- 270-WQ770-B Turbidity Meter, includes 10' cable
- Please specify 50 or 1,000 NTU setup at time of order.
- 270-WQEXC Extra Cable, over included cable length, up to 500'

Note: The 270-WQ sensors are designed for fresh water use only.