

INSTRUMENTAL IN UNDERSTANDING OUR ENVIRONMENT.

TRU BLUE™



585 CTD

585 CTD Features:

- Level Accuracy of $\pm 0.1\%$ FS TEB
- Conductivity Accuracy 1% of reading
- Calibration report included with each instrument
- Five year permanent battery
- New fully sealed design
- Two year warranty
- 8 MB internal memory
- New user-friendly TruWare software for PC or Mobile
- Makes for easier set-up and data retrieval
- Displays real-time instrument status and data graphs

585 CTD Applications:

flood and storm surge
harbors and canals REMEDIATION
LEACHATE **saltwater intrusion**
wet lands **estuaries** **stormwater**
WAVE HEIGHT TIDE GAUGING
aquifer characterization

TRUBLEUE 585CTD

Specifications

Pressure Systems is known for making top-quality environmental monitoring instruments including our highly accurate KPSI level transducers. Now our next generation of transducer models—the TruBlue series—combines precision, performance, and rugged reliability like no other instrument available today. Designed to deliver time and time again in even the harshest conditions, the 585 CTD adds monitoring conductivity to its list of parameters. Battery powered and made with 316 stainless steel or titanium, the 585 CTD's fully sealed design and advanced, power-conserving microcomputer technology enables it to log conductivity, temperature, and level (depth) for up to five years. Since these units do not require onsite power, nor a programmable logic controller (PLC), a terminal box isn't necessary. The TruBlue 585 CTD is the perfect choice when the ability to measure conductivity is

desired—and when reliability and precision matter.

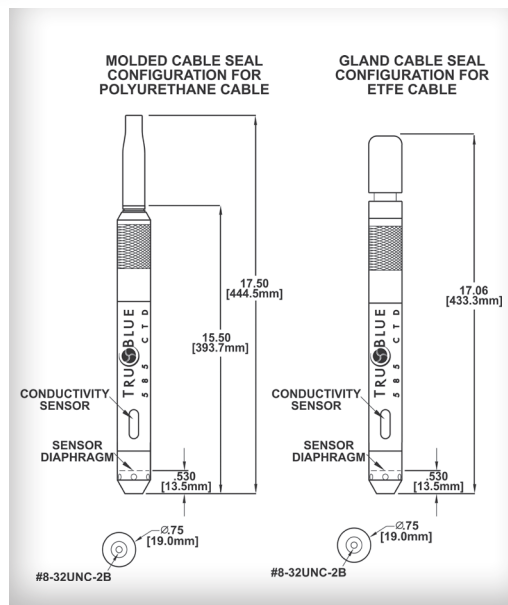
Each unit comes with user-friendly software at no charge.

- View, graph, and export test data.
- Manage transducers by site.
- Use in the field or office.



Order Information

PART NUMBER	RANGE (PSI)	REFERENCE	MATERIAL	LABEL
585-00100	5	V	S	11.5ft/3M
585-00110	5	V	T	11.5ft/3M
585-00200	15	V	S	35ft/10M
585-00210	15	V	T	35ft/10M
585-00300	22	V	S	50ft/15M
585-00310	22	V	T	50ft/15M
585-00400	30	V	S	59ft/21M
585-00410	30	V	T	59ft/21M
585-00420	30	A	S	35ft/10M
585-00430	30	A	T	35ft/10M
585-00500	50	V	S	115ft/35M
585-00510	50	V	T	115ft/35M
585-00520	50	A	S	81ft/23M
585-00530	50	A	T	81ft/23M
585-00600	100	V	S	231ft/70M
585-00610	100	V	T	231ft/70M
585-00620	100	A	S	196ft/56M
585-00630	100	A	T	196ft/56M
585-00700	125	V	S	288ft/87M
585-00710	125	V	T	288ft/87M
585-00720	125	A	S	254ft/72M
585-00730	125	A	T	254ft/72M
585-00800	300	V	S	692ft/211M
585-00810	300	V	T	692ft/211M
585-00820	300	A	S	658ft/188M
585-00830	300	A	T	658ft/188M



MANUFACTURER MODEL	PSI MODEL
TRUBLEUE 585	TRUBLEUE 585

SENSORS - CONDUCTIVITY

Sensor Type	4 Electrode Cell
Sensor Material	Epoxy/graphite
Range ($\mu\text{S}/\text{cm}$)	Low 5
	High 200,000
Accuracy	1% of reading or $20\mu\text{S}/\text{cm}$
Resolution	$1\mu\text{S}/\text{cm}$
Normalization	programmable

SENSORS - TEMPERATURE

Sensor Type	Embedded NTC Thermistor
Range ($^{\circ}\text{C}$)	Low 0
	High 50
Accuracy	$\pm 0.2^{\circ}\text{C}$
Resolution	0.01°C

SENSORS - LEVEL

Sensor Type	Oil-filled Piezoresistive
Sensor Material	316 SS or Titanium
Range (psi)	Low 5
	High 300
Accuracy	0-50 $^{\circ}\text{C}$ $\pm 0.1\%$ FS TEB
Resolution	0.01% FS or better
Burst	3X FS (600 psi max)

Accuracy is stated as total error band (TEB). This includes the combined errors due to non-linearity, hysteresis, non-repeatability and thermal effects.

PHYSICAL

Diameter	inches 0.75
Length	inches 17.25
Weight	oz. 16
Housing Material	316 SS or Titanium
Nose Material	316 SS or Titanium

OPERATING CONDITIONS

Pressure (psi)	Low 5
	High 300
Temperature ($^{\circ}\text{C}$)	Low 0
	High 50

ELECTRICAL

Internal Battery Type	3.6V lithium
Battery Life	5 years
On-board Surge Protection	✓
External Power	6-16 VDC (1mA sleep, 15mA active)
Communication Interface	RS-485 (half duplex)

DATA LOGGING

Memory	8 MB
Data Points	550,000
Clock Accuracy	2 min/year
Stabilization Time (conductivity)	10 seconds typical
Reading Rate	Linear 1 per 5 seconds
	Linear Avg programmable
	Event programmable
Fastest Logging Rate (Level, Temp)	Linear 5 per second
	Linear Avg programmable
	Event programmable
Methods	Linear ✓
	Linear Avg ✓
	Event ✓



measurement
SPECIALTIES
No. 0610