

CDS2000 Cryogenic Flow Totalizer

HIGHLY ACCURATE AND RELIABLE
LIQUID MEASUREMENT SYSTEM



Turbines, Inc. is the leader in the design and manufacture of reliable and accurate turbine flow metering equipment, electronic monitors, and accessories. All products are engineered, manufactured, and calibrated using premium quality materials by a skilled team of dedicated professionals, using state-of-the-art equipment.

The CDS2000 is the next generation, touch screen system that delivers sought-after system enhancements while maintaining a user-friendly simplicity of operation. Programming the CDS2000 is simply a matter of selecting the desired operating criteria from an all-inclusive menu thus eliminating the need to scroll through an entire flow chart to enter or change

select data. Display of various flow properties such as temperature and flow limits, fluid density, and equivalent volume is achieved automatically with the selection of product to be measured and turbine size. The CDS2000 supports multiple products.

The CDS2000 Flow Monitor rate/totalizer calculates the effects of temperature changes on computed values. The CDS2000 Delivery System is a thoroughly engineered totalizing system that incorporates the latest technology and provides the most comprehensive features available in the industry.

| CDS2000 Features | |
|-------------------------|--|
| Control & Communication | Pump Control (1) Form C 5A relay Alarm (1) Form C 5A relay Spare Form C 5A relay RS232 & Bluetooth communications Real-Time data streaming USB front panel port |
| Diagnostics & Support | Real-Time Detail Diagnostic & Alarm Screens System Alarm Log for fault identification Built-In Programming Assistance Automatic maintenance reminders |
| Display & Keypad | 800 X 480 full color graphic display. Featuring automatically adjusted back light brightness 4 softkeys and embedded resistive touchscreen used during programming |
| Printing | Hand-held bluetooth or RS232 printer Multiple tickets with customization options |
| Miscellaneous | Realtime calculations and graphics Pump housing temp sensing or leak detection Pump cavitation protection Display does not require heater |
| Certifications | NTEP Certified,IP67 |



Performance Data

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|--------------------------------------|--|
| Signal Input | Frequency range: 0-2500Hz Sensitivity: 15mv RMS @ 101Hz (min); 50mv RMS @ 500Hz (min); 400mv RMS @ 2.5 KHz (min) Impedance: Approx. 14K Ohms Noise immunity: High frequency roll off, FCO @ 2.5KHz Pickup coil failure detection Optional dual pickup |
| Sensor Inputs: | Temperature probes, product & pump housing: *100, 1K and 10K RTD inputs, silicon diode and 4-20 mA *RTD probe: 00385U/U C European din curve *Stabilized AFE precision current source Power: Continuous monitoring of main power, backup Super Cap & sensors. Pressure Transducer, 2-wire 4-20mA; loop excitation |
| Physical & Environmental: | Operating temperature: -40 to 50C Humidity: 5-95%, non condensing Sealed, shock vibration tested enclosure Dimensions: 10.5: (L) X 8.9" (H) X 2.75" (W) Weight: 4.5 lbs without bracket; 5.25 lbs with bracket |
| Power | *9-26Vdc with self-resetting fuse (polarity insensitive) *1A @ 12v average power consumption *Transient protection *Internal super capacitor allows continuous operation for up to 10 sec. after power loss for memory retention |
| Linearization | 10 Point |

Service

Our dedicated staff offers complete support and recertification for flow meters — whether our own or a competitor's brand. Our calibration services are performed by our trained technicians using the latest testing equipment.

Turbines, Inc. maintains extensive inventories in multiple locations to facilitate rapid, industry leading deliveries.

Worldwide Support

We serve customers globally with offices in Altus, OK; Seneca, SC; Odessa, TX; Cranston, RI; and Edmonton, Alberta, Canada.



All Turbines, Inc. products are proudly made in the U.S.A.



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