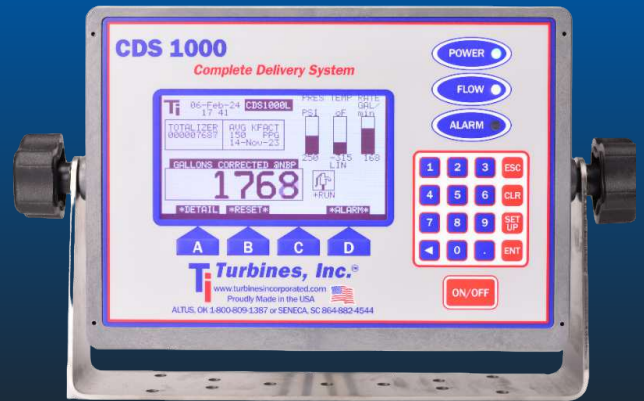


# CDS1000 Cryogenic Flow Totalizer

**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 CDS1000 is a field programmable complete delivery system that accurately computes and displays flow parameters in real time, in both digital and graphic form. This monitor

operates seamlessly with our TMC Cryogenic flow meters to deliver accurate results. The CDS1000 monitor is keypad programmable allowing for effortless configuration including linearization for enhanced metering accuracy. The CDS1000 monitor can be paired with the handheld Bluetooth printer or stationary RS232 printer for point of sale ticket printing.

## CDS1000 Features

<b>Control &amp; Communication</b>	Pump Control (1) Form C 2A relay Alarm (1) Form C 2A relay RS232 & Bluetooth communications
<b>Diagnostics &amp; Support</b>	Real-Time Detail Diagnostic & Alarm Screens System Alarm Log for fault identification Automatic maintenance reminders
<b>Display &amp; Keypad</b>	Backlit 240x128 graphic display, 4 softkeys & standard keypad
<b>Printing</b>	Hand-held bluetooth printer or RS232 printer Multiple tickets with customization options
<b>Miscellaneous</b>	Real-Time calculations & graphics Pump housing temp sensing Pump cavitation protection Simple menu driven programming
<b>Certifications</b>	NTEP Certified, ISO 9001, IP67, NMI Netherlands Certified OIML R117,R81, MID



Performance Data	
<b>Signal Input</b>	Frequency range: 0-2500Hz Sensitivity: 15mv RMS @ 10Hz (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
<b>Sensor Inputs:</b>	Temperature probes, product & pump housing: *100, 1K and 10K *RTD probe:.00385U/U C European din curve *Stabilized AFE precision current source Power: Continuous monitoring of main power, Pressure Transducer, 2-wire and 4-20mA; loop excitation
<b>Physical &amp; Environmental:</b>	Operating temperature: -25 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
<b>Power</b>	*9-26Vdc with self-resetting fuse (polarity insensitive) *1A @ 12v average power consumption *Transient protection *NimH Battery
<b>Linearization</b>	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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