

# CTES Rate Meter

The CTES rate meter provides advanced tracking of nitrogen’s rate, temperature, pressure and volume during a pumping operation. The unit is capable of receiving input from multiple devices, and its single configurable output provides over-pressure shutdown.

Information obtained for the meter’s on-board Data Acquisition System (DAS) is viewable on the included full-color graphical display. The meter’s stored information can be downloaded via USB cable for reporting purposes.

The unit comes with step-by-step instructions for calibration on the first power-up for commissioning.



## Features

### On-board Data Acquisition System (DAS)

#### Data recording

- Inputs
- Total volume
- Pump hours
- Cold end hours
- Linked to the user-entered job name

#### Human Machine Interface (HMI)

- Panel mounted on customer-provided interface
- Liquid nitrogen unit data displayed, graphed and recorded
- Full-color graphical display

#### Alarm monitoring

- Over-pressure shutdown
- Over temperature
- User-customizable settings

### General

- Rate input
- Two pressure inputs
- Two temperature inputs
- One output reserved for overpressure shutdown

## Specifications

Feature	Specification
<b>Communications ports</b>	Internal 10/100base-T wired Ethernet adapter designated for Modbus-UDP communication to the I/O system.
	Two USB ports designated for downloading data. Data downloaded in *.txt or *.csv file formats.
<b>Display</b>	Bright 177.8 mm (7") TFT color WVGA (800 x 480) display with 500 nit LED backlight
<b>Operating voltage</b>	24 VDC
<b>Operating wattage</b>	25.36W - 29.44W
<b>Target operating temperature range</b>	0°C to +55°C (32°F to 131°F)
<b>Storage temperature</b>	- 20°C to +70°C (-4°F to 158°F)

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