RECOR 323 SERIES ELECTRONIC GAS VOLUME CORRECTORS

The RECOR 323 LVC is the instrument of choice by a growing number of gas companies worldwide. It is available complete with multi resident protocol.

The 323 Series addresses a wide range of electronic measurement needs; from the simplest (LVC) stand alone mechanical instrument replacement to a full-featured one (XVC) with audit trail, event log, contract management tools, alarms and more.

The 323 series electronic volume correctors can be outfitted for total volume correction, pressure only, temperature only or fixed factor applications. In addition to the conventional universal meter mount the 323 series is available in a variety of input/output and mounting configurations. Remote pulse and high frequency volume inputs, wall bracket or pipe mounting. A variety of integral peripherals are for communications and pulse transmission.

Highlights

- Single PC Board simplifies troubleshooting and repair
- 6 volt alkaline pack provides up to four years of primary power
- On board lithium battery provides full function power for up to one year
- Compact packaging makes for easy transport and installation
- User friendly software interface
- Compatible with many third-party data collection/management parties

Specifications

Physical

Housing:	Steel
Dimensions:	9.75”x6/75” x 4.75” (enclosure 7.75” x 6” x 4.25”)
Weight:	8 lbs (including battery)
Mounting:	Universal rotatable base plate (others available)
Pressure Connection:	¼” NPTF
Temperature Probe:	¼” O.D. x 6” probe x 6’ armor; ¼” NPTM slip fitting (other available)
Security:	Stainless steel padlock hasp
Coating:	Snow white powder coat

Electrical

Primary Power Pack:	6 volt; 4 each AA alkaline heat shrink with fuse card
Back Up Power:	Twin 3.6 volt field replaceable lithium cells
Circuit:	3 volt, 60 microamp; 4” x 5” four layer PCB; 95% surface mount construction
Transducer:	10 millivolt per volt excitation; 6th order polynomial compensation
Temperature Sensor (gas and air):	Integrated circuit type
Flow Detector:	90° opposed dual optical interrupt switch (remote and hi freq. available)
Display:	Eight digit LCD
Communication:	Two RS 232, multidrop addressable

Mechanical

Drive Mechanism:	Universal drive dog, reversible mechanical gear train
Display:	Odometer style eight digit uncorrected volume counter
Scroll:	Push button switch with alarm reset (hold 5 seconds)

Performance

Acccuracy:	+/- .3% of reading inclusive of linearity, hysteresis, repeatability, long term drift & temperature
Temperature:	-40°F to + 170°F
Humidity:	5 – 95 % condensing
Primary Power Pack Life:	Up to 48 months based on 1 minute wake-up interval
Back Up Power Life:	Up to 12 months based on 1 minute wake-up interval

Options

Inputs:	Remote low frequency; high frequency
Outputs:	Optical isolator; form “C” splitter
Communication:	Internal 2400 baud modem; internal LAN card; multidrop harnesses

323 Model Feature Matrix

Feature	323 LVC	323 XVC
Profiler (Audit Trail)	35 days/hourly	130 days/hourly
Event Log (200 + lines)	No	Yes
System Alarms (P, T and Battery)	Yes	Yes
Contract Management (hrs, days, mos)	No	Yes
Contract Alarms	No	Yes
Remote Communication Ready	Yes	Yes
Phone Home/pager	No	Yes
Flow Rate (hrs, diagnostics)	Yes	Yes
Prior Month End Volume to Local Display	No	Yes
Modbus (co-resident with Sandia)	Yes	No
Pulse Outputs	Yes	Yes
Metric Units	Yes	Yes

Heath Consultants/Reynolds Equipment operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.

A Division of Heath Consultants
Reynolds EQUIPMENT COMPANY

9030 Monroe Road, Houston, TX 77061
Tel 800-775-3424 ◆ Fax 469-429-5281
www.reynoldsequipment.com