

E-Plus GL



Introduction

The E-Plus is a dual meter run, custody flow computer with an ultra-power, 32-bit microprocessor, and two (2) auxiliary, non-compensated, frequency-type meter connections.

Dual streams with independent products can be measured, as well as a single stream with up to two (2) meter runs.

The E-Plus GL has an added software feature of Tank Gauging capability.

An optional Multivariable Module 205 Sensor may be integrally mounted to the E-Plus to allow accurate determination of differential pressure, static pressure, and temperature.



E-Plus GL Details

Specification

32 Bit Processor
7-24 VDC @ 0.3 WATT
NEMA 7, 4X Class 1 Div. 1
Group B, C and D Housing

Display

8 Lines, 16 Characters
64x128 Pixels
Min Max Charting
Minutes, Hours or Days
Automatic Scrolling

Standard Interfacing

Serial Modbus
(2) Frequency Inputs
Status Input
(3) Analog Inputs
(1) Analog Output
(2) Switch Outputs
(2) Comm Ports-RS232/485
Rosemount Multivariable-
DP, Press., & Temp.
0.075 % Accuracy of
Calibrated Range

Interrogation Upgrade Options

TCP/IP Encapsulated Modbus
GSM/ Radio
Zigbee Radio
Bluetooth
Satellite

Applications

Tank Gauging
Well Head Measurement
Custody Measurement
Allocation Measurement
Gas Process Plants

Standardization

API, ISO, AGA

Units of Measurement

Metric & US Customary

Metered Products

Natural Gas (AGA8)
Process Gas (AGA8)
Superheated Steam (Steam NBS)
Crude Oil (6A/24A)
LPG (New 24)
Refined Products (6B/24B)
Specialized Products (6C/24C)

Instrumentation

Orifice Meter (API 14.3/AGA3)
Turbine/ Freq. Meter (AGA7)
SmartCone® (Dynamic)
Other Cone Meters
ISO5167
Slotted DP

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Technical Data- E-Plus GL	
POWER	
VOLTAGE RANGE	10-28 VDC
POWER CONSUMPTION	0.3 WATT
OPERATING CONDITIONS	
UNITS	US or METRIC
TEMPERATURE	- 40 TO 185 °F
HUMIDITY	100%
HOUSING	NEMA 4X CLASS 1 DIV. 1
DISPLAY	-20 TO 70 °C WIDE ANGLE
FEATURES	
DISPLAY	PLASMA 8 LINES 16 CHARACTER AND GRAPHICS 64x128 PIXELS
PROCESSOR	32-BIT MOTOROLA 68332 @ 16.7 MHz
FLASH ROM	4 MB @ 70 NANO SECONDS
RAM	2 MB @ 70 NANO SECONDS
FREQUENCY INPUT	TWO (2) CHANNELS SQUARE WAVE 0-6 kHz, SIGNAL > 3V SINE WAVE 0-1200 Hz, SIGNAL > 70mVp-p MINIMUM 10 uA @ 1 KOhm RESISTANCE
MULTIVARIABLE	BUILT-IN ROSEMOUNT MULTIVARIABLE TRANSMITTER WITH DIRECT SPI DIGITAL CONNECTION. MAXIMUM UPDATE SPEED ONCE EVERY 109 MILLISECONDS. TEMPERATURE RANGE: - 200 thru 1200 F PRESSURE RANGE: 0 thru 3626 PSIG DP RANGE: 0 thru 250 inches OR 0 thru 1000 inches
ANALOG I/O	ONE (1) 16-BIT OPTICALLY ISOLATED OUTPUT THREE (3) 24-BIT ANALOG INPUTS OR ONE (1) ANALOG INPUT AND ONE (1) RTD INPUT (Max 24mA with 50mA fuse protection) BUILT-IN ENCLOSURE TEMPERATURE AND BATTERY VOLTAGE READINGS
DIGITAL I/O	THREE (3) DIGITAL INPUTS (0-24 VDC for Main Input and 0-5 VDC for additional two (2) inputs) TWO (2) DIGITAL OUTPUTS (Max 200mA Sourcing, 300mA Sinking with 8.2 Ohm low load protection, 8-28 VDC)
SERIAL COMMUNICATION	ONE (1) SERIAL PORT RS-485/RS-232 SELECTABLE ONE (1) OPTIONAL RS-232 SERIAL PORT
COMMUNICATION PROTOCOL	MODBUS
PID CONTROL	FLOW LOOP AND PRESSURE LOOP