



MERCURY INSTRUMENTS
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IMU-II/S

INDUSTRIAL METERING UNIT-II/SERIAL

What metering unit offers you the most powerful, flexible, and economical remote, solid state recorder ever available? The answer is Mercury Instrument's IMU-II/S. The dual operating system doubles your performance while reducing your cost. The IMU-II/S is designed to collect pulse data from up to two Form A inputs and store the data as a function of time (time-tagged interval data or TTI). The pulse data collected on these two channels is also stored in an accumulator register and can be used to track a meter index. The IMU-II/S can also be used as a modem to remotely access field devices that have an RS-232 channel. Additionally, the IMU-II/S has an auxiliary port with RS-232 interface for alternative communication links, i.e., modem, RF device, cell phone, pager, etc. This provides the user with immediate or future flexibility.

Features and Benefits:

- ➔ Two pulse channel inputs with 32K memory store 15,000 records
- ➔ Serial port allows remote access to electronic correctors and other Data Terminal Equipment (DTE) that have an RS-232 channel
- ➔ Auxiliary port with RS-232 interface for alternative communication links
- ➔ Optional dual DTE port
- ➔ Remotely programmable
- ➔ 5-year nominal battery life
- ➔ Compatible with Mercury's DC2000 Data Collection and management software



Applications:

With the IMU-II/S, pulse type energy consumption data is collected, stored, and communicated to the Mercury Instruments data management computer using Mercury's high performance, communication protocol and modem. A transparent RS-232 and device serial port gives users the freedom to use the built-in modem to connect to any electronic instrument or other data terminal equipment from any compatible host system. Depending on your needs, this can eliminate the need to pay for and wait for custom protocol drivers and associated applications to be developed. Immediate or future expansion to two user serial ports is available.

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IMU-II/S

Specifications:

(subject to change without notice)

Physical:

Dimensions: 6.5" (16.5 cm) Height
6.9" (17.5 cm) Width
4.3" (10.9 cm) Depth

Weight: 3.8 lbs. (1.75 kg) AC powered,
including lead acid battery
2.5 lbs. (1.10 kg) lithium battery
powered, including lithium battery

Power:

AC Powered: AC step-down power pack and AC
power board, 4VDC output
Lead acid battery back up

Lithium Powered: Lithium battery, 3.6VDC
output, 11.5 Ahr

Customer Inputs:

Serial Inputs:

- Type: RS-232C Baud rate 300, 1200, or 2400 bps
- Data Bits: 7 or 8 Parity: Even, Odd, or None
- Stop Bits: 1, 1.5 or

Contact Closure Inputs:

- Type: Tamper Alarm, Data Input 1, Data Input 2, Alarm Input
- Maximum Drop//Resistance: 0.8VDC maximum, 1000 ohms maximum
- Active State: Must be active for over 40ms
- Data Input Rate: 600 counts/minute maximum
- Wetting voltage per Input: 3 to 5 volts (nominal)
- Wetting Current per Input: 175uA (nominal)

Communications:

FCC Registration No. BK5UA-24666-D-T-E
Modulation Standards: CCITTV.22bis 2400 bps
Data Output Level: Less than -9dBm (minimum)
Telephone Connector: 4-conductor RJ-11C
Data Storage Capacity: 32K RAM (~28K for Time-Tagged Intervals)

Operational:

Temperature Range: -30°C to +70°C

Certifications:

FCC: Part 15 and Part 68
CSA: C22.2 and UL 1459
IC Telecom: CS-3
BABT: UK
UL Class 1 Div. 2 rated

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