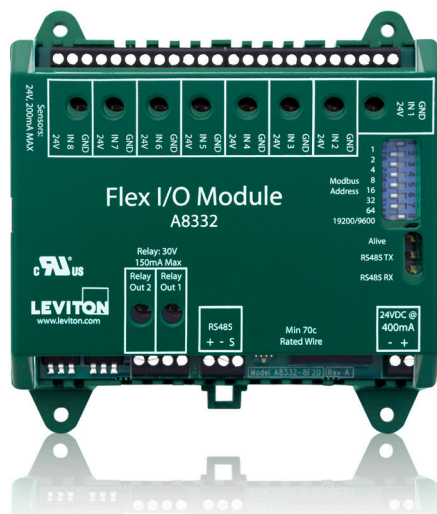


Flex I/O Module

Analog/Digital to Modbus Converter



BASIC OPERATION

Our Flex I/O is a cost-effective way to collect data from meters or sensors and bring that information into a Modbus network or energy monitoring system. As a stand-alone or bundled package, the Leviton Flex I/O can be incorporated with data acquisition and metering devices to provide a cost-effective energy monitoring solution.

The Flex I/O is compatible with virtually any Modbus master, allowing customers the flexibility to use it in existing Modbus networks. Use with the Leviton Energy Monitoring Hub (EMH).

APPLICATIONS

- Converting analog, resistive and pulse inputs to Modbus
- Electric submetering
- Cost allocation
- Measurement and verification (M&V)
- Benchmark building energy usage
- Relay outputs for demand control
- Track energy use and peak demand for Demand Response programs
- DC current monitoring for Renewable Energy

FEATURES

- Designed specifically for metering applications
- Easily add meters and sensor to Modbus network
- 8x user selectable inputs
- 2x output relays
- 2x pulse replicator
- Non-volatile memory
- Industrial temperature range (-30°C to 70°C)
- LEDs for visual verification/status
- Din or wall mount for easy installation
- Field upgradable firmware

SPECIFICATIONS

| DEVICE | |
|---|--|
| Processor | ARM7 field upgradeable firmware |
| Memory | Pulse count and runtime values are stored in non-volatile memory |
| LEDs | 8x input status LEDs (red), 2x Modbus TX/RX (yellow), 1 power/alive status (green) |
| POWER | |
| Power Supply | 24VDC, 200mA, but not to exceed 8A, Required (not included) |
| COMMUNICATION | |
| Protocols | Modbus/RTU |
| INPUTS | |
| Voltage Mode | 0-10VDC (min/max/average/instantaneous data) Accuracy +/- 0.25% of full scale at 20C |
| Current Mode | 4-20mA (min/max/average/instantaneous data) Accuracy +/- 0.25% of full scale at 20C |
| Resistance Mode | 100 ohms to 100k (see installation for accuracy specification) |
| Pulse Mode | <ul style="list-style-type: none"> Intended for use with dry contact outputs (consumption/rate/runtime/status) Standard and KYZ modes for A and C relay outputs Input terminals supplies 5V at 5mA sense voltage to detect contact closures Maximum rate: 10Hz, minimum pulse width 50ms Adjustable contact closure threshold: 100Ω to 5kΩ, broken wire sense above 10kΩ optional |
| Serial Port | RS-485 two wire, 19200 or 9600 baud, 8N1 |
| I/O | 8x Flex IO inputs with user selectable modes: voltage, current, resistance, pulse and status |
| Isolation | Pulse outputs and RS485 ports are isolated to 1500VDC; Power input, RS232 and analog/pulse inputs are non-isolated |
| OUTPUTS | |
| Relays | 2x, dry contact (opto-fet) 30 VDC, 150 mA max |
| PHYSICAL | |
| Weight | 3.70z (105g) |
| Size | 4.13" x 3.39" x 1.18" (105mm x 86mm x 30mm) |
| ENVIRONMENT | |
| North America | -22°F to 158°F (-30°C to 70°C), 0-95% RH, non-condensing |
| Altitude | 2000M max |
| Pollution | Degree 2 |
| CODES & STANDARDS | |
| Emissions | FCC CFR 47 PART 15, Class A, EN 61000, EN 61326 |
| Safety | UL61010 Recognized, EN61010 |
| OTHER | |
| NEMA enclosures available upon request; for use with any Modbus RTU device/server | |

ORDERING INFORMATION

| CAT. NO. * | DESCRIPTION |
|------------|--|
| A8332-8FD | Flex I/O Module, 8 User Selectable Inputs, 2 Relay Outputs |