MyDro Expansion Modules

Increase the monitoring possibilities of the MyDro Remote Terminal Unit.

Expand the on-board digital inputs from 8-16, and on board analog inputs from 2-6 with expansion modules. Or, add two pulse inputs for pulse based flow meters or rain tipping buckets. The analog output module can be used to remotely change chemical dosers, variable frequency drives or variable position valves either manually or automatically.

The MyDro RTU will automatically recognize the module once it is installed and will publish the readings to the MyDro LCD screen and your web portal.

Configurable options are presented on the LCD screen under the "Config" button. Your web portal is used to create alarm notification rules for the new I/O including alarm delays, analog threshold, and flow (pulse) thresholds.

The MyDro 850 series RTU is recommended for use with digital-in, analog-in, and analog-out expansion modules. Either the MyDro 150 or 850 is appropriate for use with the pulse expansion module. Set up forms for the modules are available online.

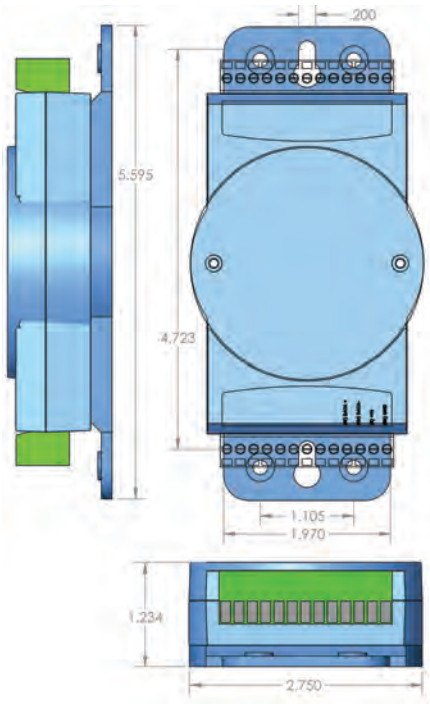
The ADAM modules provide signal conditioning, isolation, ranging, A/D, and D/A conversion. Digital communication to the MyDro is based on a unique device ID and communications cable (RS485 2 wire plus power). The device ID has been set by Mission at the factory as indicated on the label. One module of each type can be daisy-chained (wired in parallel) together on the same data bus.

- **Easy to Install**
- **Expands RTU Inputs and Outputs**
- **Simultaneously Supports Expansion Module**
- **Included communications cable capable of long distances (RS485)**

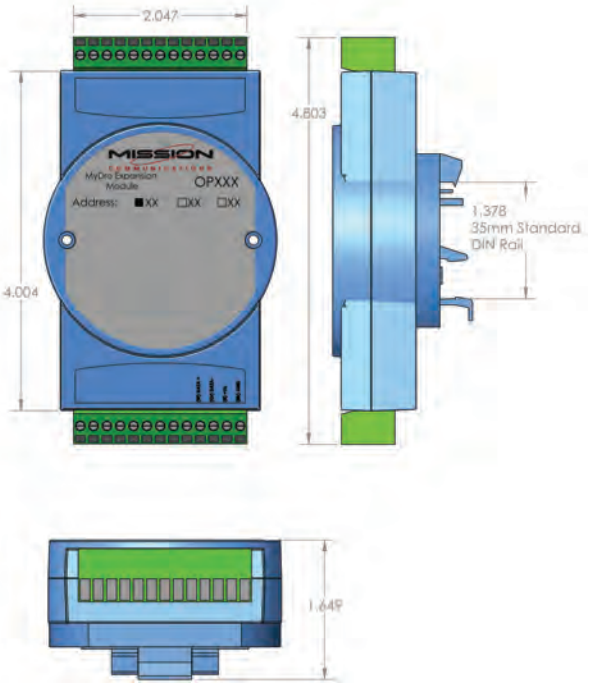
Dimensions

Interchangeable Mount Options

Direct Mount



DIN Rail Mount



Technical Specifications

	MyDro Expansion Modules				
Data	Mission PN	OP 464	OP 653	OP 465	OP 461
	Description	Pulse Input	Digital Input	Analog Input	Analog Output
	Device ID (decimal)	30	10	20	40
I/O	Channels	2	8	4	2
	Voltage on terminals	Dry, or wet up to 30VDC	Dry, or Isolated (0-50VDC)	In: 0-4 mA or 0-5 VDC	Out: 4-20 mA or 0-5V
	Impedance	50M Ohm	5.2K Ohm	Current: 120 Ohm, Voltage 20M Ohm	0.5 Ohm out, Max current load is 500 Ohm
	Timing	Minimum 8 msec, high and low, max frequency 60Hz	NA	NA	NA
Communications	Cable PN CP500	Jacketed with RJ45 terminal on MyDro end, tinned on other, 2 conductors for data, 2 for power			
	Protocal	RS 485 (2 wire Data +, Data-)			
	Maximum communication distance	4,000 feet. Voltage drop of included power must be considered			
	Indicators	Power, communications	Pwr, com, DI	Power, communications	
	Asynchronous Data Format:	Handled by MyDro (no config required) 1 startbit, 8 databits, 1 stopbit, noparity, with checksum			
	RS 485 Transient Suppression	Yes			
Power		'+10~+30VDC unregulated, protected against power reversal			
	Maximum power (not including instruments)	2W	1W	1.2W	3W
Mech.	Case	ABS and PC with captive mounting hardware			
	Included mounting plates	35mm Din rail or direct panel mount			
Terminals	Wire gauge	#14 ~22 or #14~28 AWG			
	Mission PN	CP 501	CP 502	CP 501	CP 502
Environment	EMI	Meets FCC Class A or CE			
	Temperature	'-10~70°C(14~158°F)			
	Humidity	5~95%,non-condensing			

MISSION COMMUNICATIONS

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DRAFT

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