Robust RS-485 I/O Module

Module		ADAM-4117	ADAM-4118	ADAM-4150	ADAM-4168
Resolution		16 bit		-	-
Analog Input	Input Channels	8 differential		-	-
	Sampling Rate	10/100 Hz (total)		-	-
	Voltage Input	0 ~ 150 mV, 0 ~ 500 mV, 0 ~ 1 V, 0 ~ 5 V, 0 ~ 10 V, 0 ~ 15 V, ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±15V	±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5V	-	-
	Current Input	0 ~ 20 mA, ±20 mA, 4 ~ 20 mA	±20 mA, 4 ~ 20 mA	-	-
	Direct Sensor Input	-	J, K, T, E, R, S, B Thermocouple	-	-
	Burn-out Detection	Yes (mA)	Yes (mA and All T/C)	-	-
	Channel Independent Configuration	Yes		-	-
Digital Input and Output	Digital Input Channels	-	-	7	-
	Digital Output Channels	-	-	8	8-ch relay
Counter	Channels	-	-	7	-
	Input Frequency	-	-	3 kHz	-
Isolation Voltage		3000 VDC			
Digital LED Indicator		Communication and Power			
Watchdog Timer		Yes (System & Communication)			
Safety Setting		-		Yes	
Communication Protocol		ASCII Command/Modbus			
Power Requirement		10 ~ 48 VDC			
Operating Temperature		-40 ~ 85° C			
Storage Temperature		-40 ~ 85° C			
Humidity		5 ~ 95% RH			
Power Consumption		1.2 W @ 24 VDC	0.5 W @ 24 VDC	0.7 W @ 24 VDC	1.8 W @ 24 VDC

Module	ADAM-4510I	ADAM-4520I
Network	RS-422/485	RS-232 to RS-422/485
Communication Speed (bps)	From 1200 to 115.2k	
Communication Distance	Serial: 1.2 km	
Interface Connectors	RS-422/485: plug-in screw terminal	RS-232: female DB9 RS-422/485: plug-in screw terminal
Digital LED Indicators	Communication and Power	
Auto Data Flow Control	Yes	
Isolation Voltage	3000 VDC	
Power Requirement	10 ~ 48 VDC	
Operating Temperature	-40 ~ 85° C	
Storage Temperature	-40 ~ 85° C	
Humidity	5 ~ 95%	
Power Consumption	1.4 W @ 24 VDC	1.2 W @ 24 VDC

Ethernet I/O Modules: ADAM-6000

Spec. \ Module		ADAM-6015	ADAM-6017	ADAM-6018	ADAM-6022	ADAM-6024	ADAM-6050	ADAM-6051	ADAM-6052	ADAM-6060	ADAM-6066	ADAM-6050W	ADAM-6051W	ADAM-6060W
Interface		10/100 Mbps Ethernet										802.11b wireless LAN		
Peer-to-Peer*		Yes			No	Receiver Only**	Yes							
GCL*		Yes			No	Receiver Only**	Yes					No		
Resolution		16 bit			16 bit for AI 12 bit for AO		-	-	-	-	-	-	-	-
Analog Input	Channels	7	8	8	6	6	-	-	-	-	-	-	-	-
	Sampling Rate	10 sample/second					-	-	-	-	-	-	-	-
	Voltage Input	-	±150 mV ±500 mV ±1 V ±5 V ±10 V	-	±10 V	±10 V	-	-	-	-	-	-	-	-
	Current Input	-	0 ~ 20 mA 4 ~ 20 mA	-	0 ~ 20 mA 4 ~ 20 mA	0 ~ 20 mA 4 ~ 20 mA	-	-	-	-	-	-	-	-
	Direct Sensor Input	Pt, Balco and Ni RTD	-	J.K.T.E.R.S.B. Thermocouple	-	-	-	-	-	-	-	-	-	-
	Burn-out Detection	Yes	-	Yes	-	-	-	-	-	-	-	-	-	-
	Math. Functions	Max. Min. Avg.	Max. Min. Avg.	Max. Min. Avg.	-	-	-	-	-	-	-	-	-	-
Analog Output	Channels	-	-	-	2	2	-	-	-	-	-	-	-	-
	Current Output	-	-	-	0 ~ 20 mA, 4 ~ 20 mA with 15 VDC	0 ~ 20 mA, 4 ~ 20 mA with 15 VDC	-	-	-	-	-	-	-	-
	Voltage Output	- -	-	-	0 ~ 10 VDC with 30 mA	0 ~ 10 VDC with 30 mA	-	-	-	-	-	-	-	-
Digital Input and Output	DI Channels	-	-	-	2	2	12	12	8	6	6	12	12	6
	DO Channels	-	2 (Sink)	8 (Sink)	2 (Sink)	2 (Sink)	6 (Sink)	2 (Sink)	8 (Source)	6-channel relay	6-channel power relay	6 (Sink)	2 (Sink)	6-channel relay
	Extra Counter Channels	-	-	-	-	-	-	2	-	-	-	-	2	-
	Counter Input	-	-	-	-	-	3 kHz	4.5 kHz	3 kHz				4.5 kHz	3 kHz
	Frequency Input	-	-	-	-	-	3 kHz	4.5 kHz	3 kHz				4.5 kHz	3 kHz
	Pulse Output	-	-	-	-	-	Yes							
	High/Low Alarm Settings	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-
Isolation Protection		2000 VDC			2000 VDC***		2000 VDC							
Remark		-	-	-	Built-in Dual Loop PID Control Algorithm	-	-	-	-	-	-	-	-	-

* : Peer-to-Peer and GCL cannot run at the same time, only one feature is enabled at one time.
** : ADAD-6024 can only play the receiver and generate analog output when using Peer-to-Peer or GCL.
*** : Only for analog input and analog output channels.