

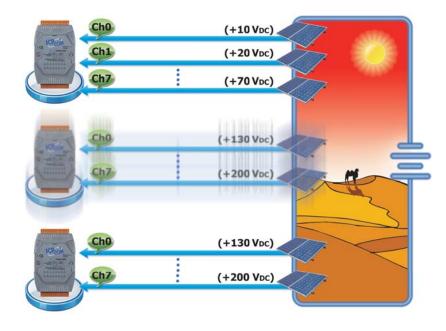
RS-485 I/O Products

2.2.7. Analog Output Module

Analog Output Module				
Madel News	I-7021	I-7021P	I-7022	I-7024
Model Name			M-7022	M-7024
Pictures				
Analog Output				
Channels	1		2	4
Wiring	Unipolar		Unipolar	Bipolar/Unipolar
Range	0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA		0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA	0 ~ 5 V, ±5 V, 0 ~ 10 V, ±10 V, 0 ~ 20 mA, 4 ~ 20 mA
Resolution	12-bit	16-bit	12-bit	14-bit
Accuracy	0.1%	0.02%	0.1%	0.1%
DA Output Response Time	10 ms		10 ms	10 ms
Open Wire Detection (for current only)	Yes		Yes	-
Channel to Channel Isolation	-		Yes	-
Power-on Value	Yes		Yes	Yes
Safe Value	Yes		Yes	Yes
Digital Input				
Channels				
Contact				
Sink/Source (NPN/PNP)				
On Voltage Level				
Off Voltage Level				
Counter (50 Hz, 16-bit)				
Input Impedance	_			
Overvoltage Protection				
System				
Dual Watchdog	Yes			Yes
ESD (IEC 61000-4-2)	±2 kV			±2 kV
EFT (IEC 61000-4-4)				-
RS (IEC 61000-4-3)	-			-
Intra-Module Isolation, Field-to-Logic	3000 V _{DC}			3000 VDC
Power Input	10 ~ 30 VDC			
Power Consumption	1.8 W	1.8 W	3.0 W	2.4 W

Common Voltage Protection

The typical application is to monitor the charging status of the batteries in series. The voltage of each battery is +10 VDC so the first battery is +10 VDC, the second battery is +20 VDC etc. The differential voltage of the 20th battery is only +10 VDC between vin+ and vin- terminal, while the common voltage is up to 200 VDC. If the common voltage of the analog input module is not large enough, then it can not measure the correct voltage of the battery in charging. ICP DAS analog input modules provide +/-200 VDC high common voltage for industrial applications.



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