

XYR 5000

Analog/Discrete Output Modules for the Base Radio

34-XY-01-07 12/2004

PRODUCT SPECIFICATION AND MODEL SELECTION GUIDE

Function

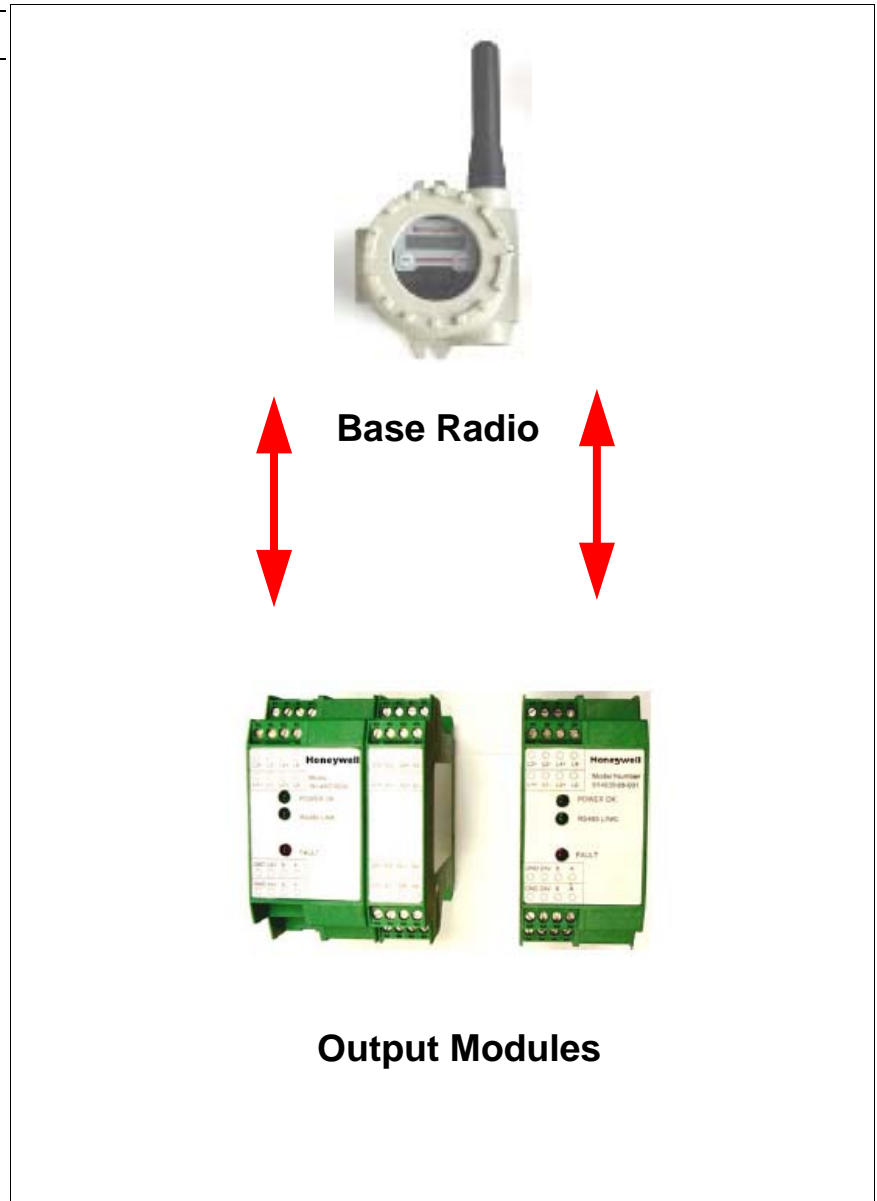
The Analog/Discrete Output Modules provide field unit process/status data from the base radio to the customer's system. There are three different modules available; the Analog Output Module, the Discrete Output Module, and the combined Analog/ Discrete Output Module.

The Analog Output Modules can be configured to output the primary and secondary variables from the field unit in 4 – 20 mA. The Discrete Output Modules can be configured to open or close based:

- Process variable thresholds (from field units)
- Field unit alarms (like low battery)

Enjoy the benefits of wireless technology today:

- Improve Product Quality
- Ensure High Uptime
- Reduce Maintenance and Operational Costs
- Meet Regulatory Requirements
- Enhance Flexibility



ANALOG OUTPUTS

Outputs per Card	4 (Isolated Current Sink Outputs).
Current	3.1 to 23.5 mA, range selectable.
Load Resistance	1000 ohms max. @ 24 Vdc; 500 ohms max. @ 12 Vdc.
Isolation	2,200 Vrms between field and logic.
Accuracy	± 0.1% of full scale reading at Reference Conditions (24 °C, 75 °F). Additional ± 0.1% per 10 °C (18 °F) deviation from reference conditions.

DISCRETE OUTPUT SWITCHES

Outputs per Card	8 (Isolated Avalanche MOSFET Outputs).
Isolation	2,200 Vrms between field and logic.
Operating Voltage	6 – 30 Vdc.
On Resistance	9 m-ohms typical, 15 m-ohms maximum.
Maximum Load Current	1 amp dc per point.

DEVICE CONFIGURATION

Parameter Configuration	<ul style="list-style-type: none">• Wireless Management Toolkit required for parameter configuration.• Analog Output Range: lower and upper range values.• Analog Output Trim: Applies a user-defined one- or two-point correction curve to the actual value.• Enable/Disable Failsafe for each output.• Analog Output Failsafe: user selectable to 3.6 mA, 23 mA, or user specified value.• Discrete Output Failsafe: open condition only• RS-485 address (1 per module).• Mapping of field unit process/status data
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OPERATING/STORAGE CONDITIONS

Temperature	Ambient Electronics: -40 to +185°F (-40 to +85°C)
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PHYSICAL SPECIFICATIONS (DIN Rail Mounted)

Analog Module (4 AO)	3.8" high X 1.8" wide X 4.4" deep.
Discrete Module (8 DO)	3.8" high X 2.7" wide X 4.4" deep.
Analog/ Discrete Module (4 AO/8 DO)	3.8" high X 2.7" wide X 4.4" deep.

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Instructions

- Select the desired key number. The arrow to the right marks the selection available.
- Make one selection from Table I. Select Table II options as desired.

Key Number I (Optional) II (Approvals)

- -

KEY NUMBER	Selection	Availability
Description		
Wireless Base Radio (Dual Output)	WBR	▼

TABLE I - OPTIONS

2" Pipe Mounting Bracket	MB	•
120/240 VAC to 24 VDC 15 W DIN Rail Mounted Power Supply	PW	•
RS-485 to RS-232 Din Rail Converter kit	RS	•
DIN Rail Mounted Quad 4-20 mA Output Module (4 analog outputs) *	Pricing Table 1	•
DIN Rail Mounted Discrete Output Module (8 switch outputs) *	Pricing Table 2	•
DIN Rail Mounted Combined Analog/Discrete Output module (4 analog outputs and 8 digital switch outputs) *	Pricing Table 3	•

Pricing Table 1

Select option based on number of required outputs and enter option in Table I - Options

Number of analog outputs	Option	Price (US\$)
4	A1	
8	A2	
12	A3	
16	A4	
20	A5	
24	A6	
28	A7	
32	A8	
36	A9	
40	AA	
44	AB	
48	AC	

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Pricing Table 2

Select option based on number of required outputs and enter option in Table I - Options

Number of Discrete outputs	Option	Price (US\$)
8	B1	
16	B2	
24	B3	
32	B4	
40	B5	
48	B6	
56	B7	
64	B8	
72	B9	
80	BA	
88	BB	
96	BC	

Pricing Table 3

Select option based on number of required outputs and enter option in Table I - Options

Num. of analog/dis. outputs	Option	Price (US\$)
4 8	C1	
8 16	C2	
12 24	C3	
16 32	C4	
20 40	C5	
24 48	C6	
28 56	C7	
32 64	C8	
36 72	C9	
40 80	CA	
44 88	CB	
48 96	CC	

* (Note - up to 25 output cards can be added to the base radio, in any combination of board type; one field measurement point can be mapped to multiple output points).

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TABLE II - CERTIFICATION OPTIONS

Certificate	Approval Type	Location or Classification	Code		
NONE	NONE	Ordinary Non-Hazardous Location	9X	•	
Combined FM	Explosionproof	Class I, Div. 1, Groups B,C,D, T5 Enclosure 4X	1D2D	•	
	Dust-Ignitionproof	Class II, III, Div. 1, Groups E,F,G, T5; Enclosure 4X			
CSA	Explosionproof	Class I, Div. 1, Groups B,C,D, T5 Enclosure 4X			a
	Dust-Ignitionproof	Class II, III, Div. 1, Groups E,F,G, T5; Enclosure 4X			

RESTRICTIONS

Restriction Letter	Available Only With	Not Available With
	Table Selection	Table Selection
a	II	mutually exclusive - select one

DIN Rail mounted Quad Analog Output Module	51453568-001
DIN Rail mounted Discrete Output Module (8 switches)	51453568-002
DIN Rail mounted Quad Analog/Discrete Output Module (8 switches)	51453568-003



Industrial Measurement and Control

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