CONTROL WIZARD

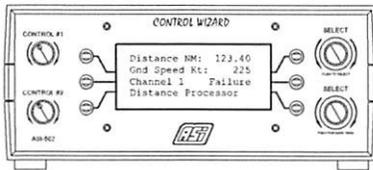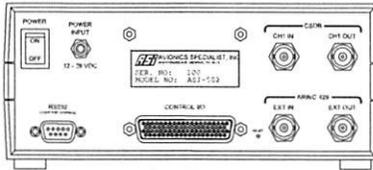## It's Small!

(Front View)

Shown with Optional IND-42 Simulator Program

(Rear View)

8.1" Wide x 3.3" High x 6.4" Deep

Includes:

WDU18-1000	AC Power Adapter
17HD078PAA	I/O Mating Connector

It's Feature Rich!!

The *CONTROL WIZARD* emulates many standard avionics control head functions making it an ideal control substitute for bench and flight line testing.

Its bright Vacuum-Fluorescent screen can be seen in most any lighting condition.

Complete with these programs:

[1] 429 BIT WIZARD	COM 2X5
[2] CSDB WIZARD	COM ARINC-429
ADF ARINC-429	COM CSDB
ADF BCD	HF ARINC-429
ADF CSDB	NAV 2X5
ATC ARINC-429	NAV ARINC-429
ATC BCD	NAV CSDB
ATC CSDB	VOR OMNIBEARING

Plus, there is plenty of memory for more. We are adding new programs all the time!

Custom programming is available.

Each *WIZARD* program is an individual module. Adding new programs is a simple task through its RS-232 computer connection. Our talented staff listens to our customers and delivers results.

It's Upgradeable!!!

The *CONTROL WIZARD* improves with age. How? It's like this… We are committed to maximizing its value for your dollar. Our engineering department realizes that your avionics shop has special needs from time to time. Ours does! That is exactly why we made it easy to upgrade with new programs and adapters.

The right connectivity.

Optional Adapter boards easily mount on the rear to provide the correct connector to match your existing cables.

ASI-50-2A	ASI-500-1/2 COMM/DME/NAV
ASI-50-2B	ASI-500-1/2 ADF/ATC/613L-3
ASI-50-2C1	IND-42
ASI-50-2C	CTL-20
ASI-50-2D	CTL-30
ASI-50-2E	CTL-60
ASI-50-2F	CTL-90
ASI-50-2G	CTL-22/22A/22C
ASI-50-2H	CTL-23/23C/32/32A
ASI-50-2J	CTL-62/62A
ASI-50-2K	CTL-92/92A
ASI-50-2L	CTL-92T
ASI-50-2M	313N-4D
ASI-50-2N	614-11/12/13

Data Bus Analyzer Capabilities

[1] ARINC 429 Bit Wizard

Transmit:	ARINC-429 32-bit Data
Bit Rates	12.0 Khz, 12.5 Khz, 14.5 Khz., and 100 Khz $\pm0.05\%$ at 12.5 Khz and 100 Khz
Parity	Odd, Even, None (Off)
Outputs	1 of 3 selectable outputs
Words	Up to 32 with mixed or unique labels
Word Rates	1ms to 9999ms ±2ms with 5 pre-sets
Word Gap	4 Bit minimum
Triggers	2 Opto-isolated inputs
Burst Mode	Adjustable for 1 to 99 words
Display	Hex, Binary 32 to 1, and Binary 1 to 32
Output Levels	±10 VDC (Line A to Line B)
Output Impedance	78 Ohms

Receive:	ARINC-429 32-bit Data
Bit Rate	7.5 Khz to 14.5 Khz, and 100 Khz
Parity	Odd, Even, None (Off)
Inputs	1 of 3 selectable inputs
Receive memory	256 Labels per SDI (1024 words)
Word Rate	Calculates received words to ±2ms
Filters	8 dynamic Data filters
Display	Hex, Binary 32 to 1, and Binary 1 to 32
Total Input Impedance	8K minimum, 9.5K typical

Traps:	Trap on Filter options
Trap Memory	1023 Words plus Trap Event Word
Trap Alarm	Audible tone, On or Off
Trap Event Modes	Event and All Labels, Event and Filter Data
Display	Hex, Binary 32 to 1, and Binary 1 to 32
Trap Storage	Adjustable 1023 to 0 Post-Event Words and 0 to 1023 Pre-Event words

[2] CSDB Wizard

Transmit:	Commercial Standard Data Bus (CSDB)
Bit Rate	12.5 Khz $\pm0.05\%$ (Standard rate)
Parity	Fixed Odd
Outputs	1 of 2 selectable outputs
Messages	Up to 32 with mixed or unique Addresses
Preset Message Rates	50ms, 100ms, 200ms, 333ms, and 500ms
Adjustable Message Rate	10ms to 9999ms
Frame Synch	11 Bit minimum
Triggers	2 Opto-isolated inputs
Burst Mode	Adjustable for 1 to 99 messages
Display	Hex and Binary

Receive:	Commercial Standard Data Bus (CSDB)
Bit Rate	12.5 Khz $\pm0.05\%$ (Standard rate)
Parity	Fixed Odd
Inputs	1 of 2 selectable inputs
Receive memory	256 Addresses / Messages
Message Rate	Calculates received words to ±2ms
Filters	8 dynamic filters
Display	Hex and Binary
Total Input Impedance	6K Typical, 4K minimum

Traps:	Trap on Filter options
Trap Memory	1023 Messages plus Trap Event Message
Trap Alarm	Audible tone, On or Off
Trap Event Modes	Event and All Addresses, Event and Filter Data
Display	Hex and Binary
Trap Storage	Adjustable 1023 to 0 Post-Event Words and 0 to 1023 Pre-Event words

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[3]Power Requirement: 12 to 28 VDC, ¾ Amp

Additional Information

[3]115 VAC to 18 VDC Wall Transformer is included.

26 Open-Collector Outputs:	High Current, 500 ma	2 Opto-Isolated Inputs:	60 ma Forward Current	Dimensions:	8.1" Wide x 3.3" High x 6.4" Deep
1 Power Relay:	Single-pole, 10 Amp	2 Potentiometers:	5K, Linear, ½ Watt	Weight:	40 ounces
2 Signal Relays:	Single-pole, 500 ma	1 RS-232 Port:	9600 Baud I/O		