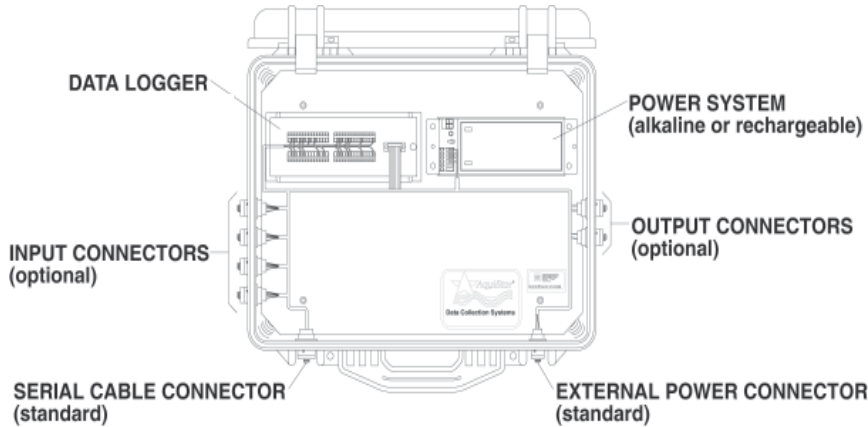




# P-SERIES PORTABLE DATA COLLECTION SYSTEMS

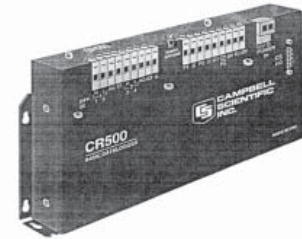


## FEATURES

- Externally-mounted quick connects for easy hook-up
- Alkaline or rechargeable power options
- Tough water-resistant case
- Easy-access PC interface
- Lithium battery backup (P10 only)
- Real-time graphics

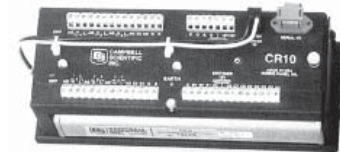
### Aquistar® Model P5-X Series

The Aquistar® P5 Data Collection System comes fully equipped with a Campbell Scientific CR510. Housed in a tough water-resistant case, the P5 features up to four analog channels and is an ideal portable system for simple field testing and control applications.



### Aquistar® Model P10-X Series

INW's Aquistar® P10 Data Collection System features the field-proven Campbell Scientific CR10X and is capable of measuring up to 12 analog channels (additional channels available with AM416 multiplexer). The P10 system is designed for more complex field investigations and control applications.

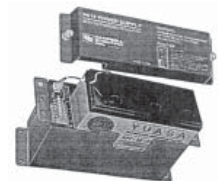


### Aquistar® Model PX-10/15 Series Power Options

Choose a power supply option by selecting -10 for the alkaline power option or -15 for the rechargeable option. Both power options are packaged in a rugged aluminum enclosure and feature quick connects for easy hook-up and battery exchange.



-10 Alkaline  
Power Option



-15 Rechargeable  
Power Option

### Typical Applications

- pH
- Flow
- Temperature
- Turbidity
- Soil moisture
- Water level/pressure
- Specific conductance
- Barometric/vacuum pressure
- Specific ions (bromide or chloride)
- Redox



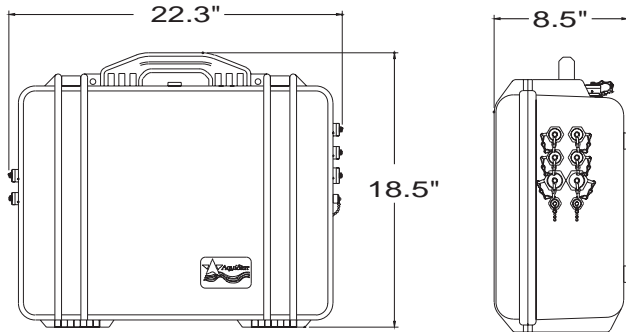
**Instrumentation  
Northwest, Inc.**

**1-800-776-9355**  
<http://www.inwusa.com>



# PORTABLE DATA COLLECTION SYSTEMS

## DIMENSIONS and SPECIFICATIONS



**AquiStar® P10-15 with M6, M10 and BNC options**

### HOW TO ORDER

- Choose the appropriate data logger.
- Determine power option.
- Order one accessory kit per operator. (Contact INW for a full list of accessories.)
- Order software programming and system integration services as needed
- Order additional sensors and cable as needed.

P-SERIES PORTABLE SYSTEMS	
<b>6D300</b>	AquiStar® Model P5-10
<b>6D315</b>	AquiStar® Model P5-15
<b>6D330</b>	AquiStar® Model P10-10
<b>6D345</b>	AquiStar® Model P10-15
<b>3D096</b>	M6 Channel Option
<b>3D097</b>	M10 Channel Option
<b>3D025</b>	BNC Bulkhead Option
MISCELLANEOUS	
<b>6D010</b>	AquiStar® P-Series Accessory Kit
<b>6D095</b>	12V/7Ahr Spare Battery
<b>6D028</b>	PC 208W Software
<b>6D037</b>	Aquistar® P-Series Serial Cable
<b>6D097</b>	Aquistar® 12V Battery Charger

Information in this document is subject to change without notice.

Note: The operation of these portable systems requires the use of an external portable computer or a Campbell Scientific hand-held terminal for setup and downloading of stored data. Once the system is programmed, it will collect data without the need for the external computer or terminal until the supply voltage falls below 9.6 Volts.

### MECHANICAL

<b>Input Connectors</b>	6 pin or 10 pin Mil-Spec/BNC
<b>Output Connectors</b>	6 pin or 10 pin Mil-Spec/BNC
<b>Enclosure</b>	Water tight / Polyresin
<b>Weight (approximate)</b>	20 - 25lbs.

### ELECTRICAL

Model	P5-10/15	P10-10/15
<b>Logger Type</b>	CR510	CR10X
<b>Analog Channels</b>	2 differential/ 4 single ended	6 differential/ 12 single ended
<b>Digital I/O Ports</b>	2 ports	8 ports
<b>Pulse Ports</b>	2 channels (2) 8-bit or (1) 16-bit	2 channels (2) 8-bit or (1) 16-bit
<b>Switched 12V</b>	N/A	1 port - controlled by 1 digital port
<b>Memory</b>	128K Flash 32K SRAM	128K Flash 128K SRAM
<b>Backup Battery</b>	N/A	Lithium / 270mAh

### COMMON SPECIFICATIONS

#### Range and Resolution

Full Scale Input Range (mV)	Resolution (µV)	
	Differential	Single Ended
+/-2500	333	666
+/-250	33.3	66.6
+/-25	3.33	6.66
+/-7.5	1.00	2.00
+/-2.5	.33	0.66

#### Input Sample Rates

Fast differential voltage	4.2 ms
Slow differential voltage	9.2 ms
Differential with 60Hz rejection	25.9 ms

#### Accuracy

+/- 0.1% of FSR (-25° to 50°C)
+/- 0.05% of FSR (0° to +40°C)
+/- 2.5V

#### Common Mode Range

<b>DC Common Mode Rejection</b>	>140dB
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#### Normal Mode Rejection

<b>(60 Hz with slow differential measurement)</b>	70dB
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#### Input Current

<b>Input Resistance</b>	+/- 9nA maximum
<b>Excitation</b>	20GΩ typical

#### Excitation Accuracy

<b>Excitation Accuracy</b>	+/- 2.5V
	+/- 2.5mV (0° to 40°C)
	+/- 5 mV (-25° to +50°C)

#### Resolution

<b>Output Current</b>	0.67 mV
<b>Peripheral Interface</b>	+/-25mA

#### Power Requirement

<b>Operating Temperature</b>	RS232
	9.6 - 16 Volts

#### BATTERIES

<b>-10 Alkaline Batteries</b>	-25°C to +50°C
<b>-15 Rechargeable Battery</b>	8 (D-cell) 7Ahr @ 20°C
	12V/7Ahr sealed lead acid

## Instrumentation Northwest, Inc.



### Sales and Service Locations

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 (425) 822-4434 • (425) 822-8384 FAX • info@inwusa.com  
 4620 Northgate Boulevard, Suite 170 • Sacramento, California 95834  
 (916) 922-2900 • (916) 648-7766 FAX • inwsw@inwusa.com