



DINCON II & DINPRES II MONITORS

Installation, Operating & Maintenance Instructions



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Revision History:

Rev. #	Date	Author	Description
A	4/25/2019	A. Dawson	Initial release, based on original SciLog DIN Module Manual
B	11/11/2020	A. Dawson	Defaults updated, photos updated
C	21AUG2025	M. Maben	Update format, corrected RS485 Pinout; Pin 8 is A, Pin 7 is B, removed DINTemp II



Precautions

READ this manual **BEFORE** operating or servicing this equipment.

FOLLOW these instructions carefully.

SAVE this manual for future reference.

DO NOT allow untrained personnel to operate, clean, inspect, service or tamper with this equipment.

ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

Contact your local Parker Division for parts, information and service.



! WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.



! CAUTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.



! WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TEST AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.



! WARNING

FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD, CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.



! CAUTION

USE ONLY CLASS 2 LISTED EXTERNAL 24 VDC POWER SUPPLY WITH THESE DEVICES.

Précautions

LISEZ ce manuel AVANT de faire fonctionner ou d'entretenir cet équipement.

SUIVEZ attentivement ces instructions.

CONSERVEZ ce manuel pour future référence.

NE LAISSEZ PAS du personnel non qualifié utiliser, nettoyer, inspecter, entretenir, réparer ou manipuler cet équipement.

DÉBRANCHEZ TOUJOURS cet équipement de la source de courant avant de nettoyer ou d'exécuter l'entretien.

APPELEZ PARKER pour pièces détachées, renseignements et entretien.

	 ATTENTION
	DÉBRANCHEZ TOUT COURANT DE CETTE UNITÉ AVANT DE FAIRE L'INSTALLATION, D'EFFECTUER L'ENTRETIEN, LE NETTOYAGE OU AVANT DE RETIRER LE FUSIBLE. NE PAS OBSERVER CES PRÉCAUTIONS RISQUERAIT DE CAUSER DES BLESSURES CORPORELLES OU/ET D'ENDOMMAGER L'ÉQUIPEMENT.
	 PRUDENCE
	SOYEZ PRUDENT LORSQUE VOUS MANIPULEZ DES APPAREILS SENSIBLES À L'ÉLECTROSTATIQUE.
	 ATTENTION
	ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TEST AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.
	 ATTENTION
	POUR ASSURER UNE PROTECTION CONTINUE CONTRE UNE DÉCHARGE ÉLECTRIQUE, BRANCHEZ UNIQUEMENT SUR UNE PRISE CORRECTEMENT RELIÉE À LA TERRE. NE RETIREZ PAS LA FICHE DE TERRE.
	 PRUDENCE
	N'UTILISER QUE DE L'ALIMENTATION ÉLECTRIQUE 24 VDC EXCLUSIVE DE CLASSE 2 AVEC CES DISPOSITIFS.

Introduction

You will find the DINCon II and DINPres II Modules and sensors easy to use. The state-of-the-art hardware and software design of the DIN Module and sensor combination allows you to measure and document the conductivity, pressure or temperature of many filtration / separation processes. With proper maintenance, the DIN II Modules will provide many years of excellent service and performance.



Please read the following instructions carefully!

Inspections: Remove the products carefully from the shipping container. Check the contents against the purchase order to verify that all parts are included and undamaged.

Please do the inspection now, even if the products are not used immediately. Many carriers must receive damage claims within seven days of delivery. Please retain all packing material so unit may be shipped safely, if necessary.

Customer Service:

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Parker customer service personnel will be able to serve you more efficiently if you have the following information:

- Serial number and model name of the equipment
- Installation procedure being used
- Concise list of symptoms
- List of operating procedures and conditions in use when problem arose

Calibration

The DIN II Modules are calibrated devices and are calibrated with test equipment that is traceable to SI through NIST.

A Calibration Certificate is included with each unit and has a one year expiration date.

It is highly recommended that the Module be calibrated on an annual basis or more often if your Metrology Department deems it necessary.

Parker Bioscience Filtration provides this Calibration Service, complete with a new certificate, showing the “as found” and “as left” data.

Contact your local Parker Bioscience Filtration Territory Manager if a quote is needed for this service. Onsite calibration can be arranged.



Warranty

Country specific information can be found at: www.parker.com/termsandconditions

Standards

EN 61326-1:2006, Class B

EN 61010-1:2010 Ed.3+ C1; C2

Conforms to UL STD 61010-1:2012 Ed.3+ R: 29Apr2016

Certified to CSA STD C22.2 No 61010-1-12:2012 Ed.3+U1;U2



Caution: The maximum recommended pressure for the sensors is 60 psi.
If this is exceeded, problems with leakage and functionality can occur.

Installation & Start Up

Installation of the DINCon II and DINPres II Modules must be carried out only by trained personnel in accordance with the relevant regulations and this operation manual.

Make sure that the technical specifications and input ratings of the single-use sensors are observed. See the appropriate Sensor Specifications page.

The protection provided by this equipment may be impaired if the single-use sensors are used in a manner inconsistent with this manual or for purposes not specified by the manufacturer.

Maintenance & Cleaning

The Parker DIN II Modules are maintenance free. The single-use Parker sensors come pre-calibrated from the factory and require no maintenance.

To remove dust, dirt and stains, the outer surfaces of the DIN II Modules may be wiped using a soft, non-fluffing cloth moistened with water. If required, you may also use a mild detergent or 2-propanol.

The single-use sensors may be sanitized with 0.1 Molar NaOH, or 2-propanol. They may be autoclaved up to 2 times, or gamma-irradiated with exposure up to 45 kGy.



Hardware Specifications – All Modules

Dimensions		Width: 0.875" (2.2 cm); Height 4.0" (10.2 cm); Depth: 4.75" (12.1 cm)
Weight		0.3 lb. (0.14 Kg)
Enclosure		Molded Plastic
Electrical	Power	24 VDC, 250 mA. Use only Class 2 External Power Supply
	Battery	CR1216, used for internal clock, not user serviceable
	I/O Port Top	8 pin Terminal Block, numbered from rear:
		1: +24 VDC 2: 24 VDC Return 3: N/C 4: Signal GND (COM) 5: RS-232 RX 6: RS-232 TX 7: RS-485 B 8: RS-485 A
	I/O Port – 2	RJ45, Ethernet Connection
	I/O Port - 3	USB Connection
	I/O Port Bottom	14 Pin Sensor Connection, DINCon has 1, DINPres has 3.
Software	DISPLAY	Power Status LED, Sensor Status LED's
	Modbus	Modbus RTU via RS-232 Modbus RTU via RS-485
		Modbus RTU via USB Modbus TCP via Ethernet
Environmental	Temperature	4 – 60° C
	Altitude	Up to 2000 Meters
	IP Rating	IP20, Indoor dry environments, unit is wipe-down only
	Rel. Humidity	0 – 95%
	Voltage	Fluctuation allowed: +/- 10%
	Pollution	Degree: 2

Installation:

Overview:

The DINCon II and DINPres II, Modules are designed to be installed as part of a control system inside a control cabinet that has a 24 VDC source available and has Modbus communication protocol capability.

The DIN II Modules are installed on standard DIN II rail. They are usually mounted with the red locking tab located at the bottom of the unit. This places the Power and Communication connections at the top of the Module and the Sensor connections at the bottom. They may be mounted upside-down if that proves useful.

Wiring Power and Communication:

Connect 24 Volts DC, 250 mA power to Pins 1 (+) and 2 (-) of the 8 pin terminal block. (Note - pin 1 is at the rear, nearest the DIN rail.)

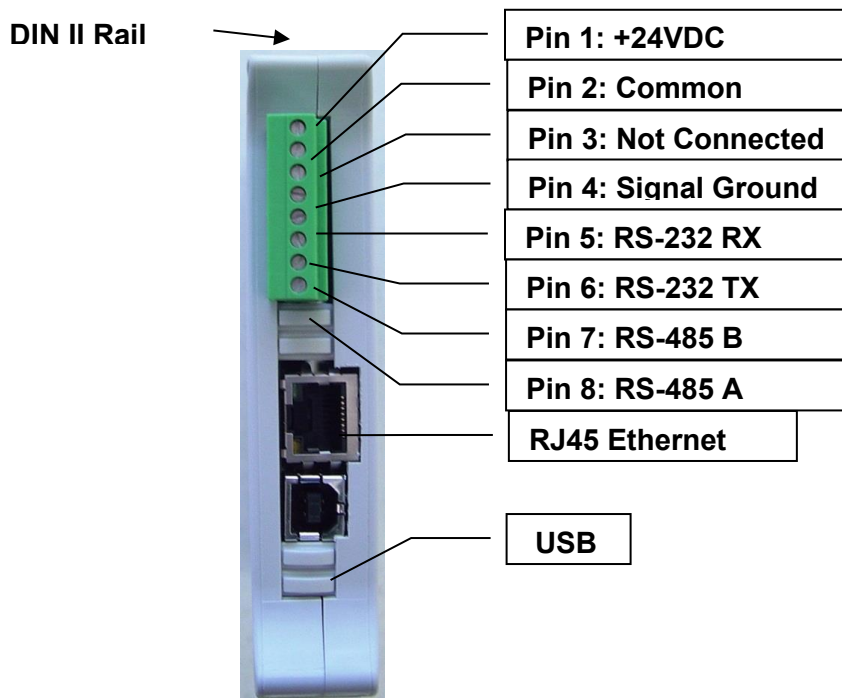
All data acquisition is via Modbus registers in either RTU or ASCII. The available physical layers are RS-232, RS-485, Ethernet and USB. The recommended physical layer for installation of *multiple units* is Modbus/RTU over RS-485 with Modbus/TCP via Ethernet a close second.

For RS-232, connect to the following: Pin 4 = Signal Ground, Pin 5 = RX, Pin 6 = TX.

For RS-485, connect to the following: Pin 7 = RS485-B, Pin 8 = RS485-A.

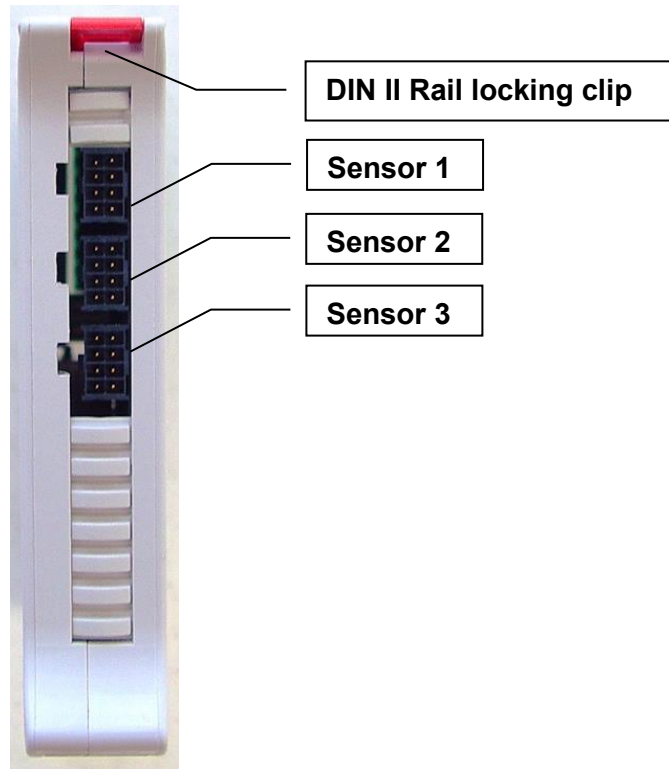
For Ethernet connect an Ethernet cable to the provided RJ45 jack.

For USB connect to the provided USB Type B jack.



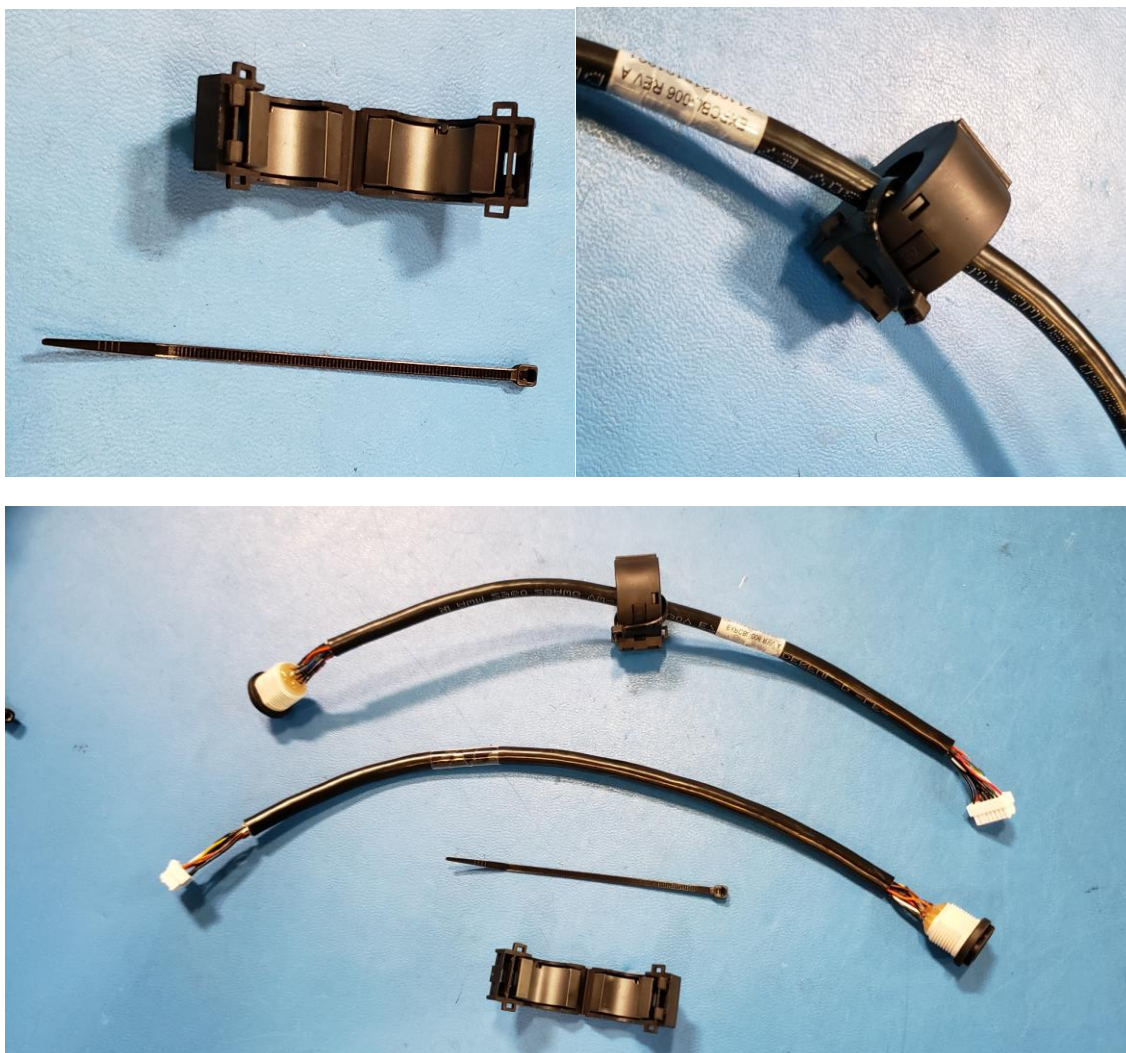
Connecting Sensors:

All sensors, SciCon II for use with the DINCon II Module, SciPres II for use with the DINPres II Module, are disposable flow through sensors that are purchased separately from Parker and come pre-calibrated.



The sensors connect to a provided cable that has an Amphenol bulkhead watertight connector on the sensor end and a 14 pin connector on the other end that plugs into a matching port on the bottom of the Module. The DINCon II has only one port, and uses only one SciCon II Sensor. The DINPres II has 3 ports, can support up to 3 SciPres II, and they are referred to as P1 – P3 beginning with P1 at the rear, or the closest connector to the DIN rail. These cables are 12" long providing flexibility in where the bulkhead fittings are installed on the control cabinet.

These cables ship with a ferrite clamp included that should be attached and secured to the cable as shown below: (anywhere along the cable is fine.)



When powered up and connected the Sensor Status LEDs on the front of the Module are colored as follows:

- Green = Connected
- Red = Disconnected
- Yellow = Connected but not calibrated.

If the LED shows Yellow, it's time to replace the affected Sensor with a new one. Connecting the wrong type of Sensor to the module also results in a Yellow indication.

Operating Instructions:

Modbus Overview:

The Parker DIN II modules communicate via the Modbus protocol. All data is transferred using the Modbus holding registers. The default connection is RS-485 at 115,200 baud, 8 bits, even parity and one stop bit.

Note: If parity setting (register 109) is changed to “none” then two stop bits must be used.

The default Modbus mode is RTU. The Default Modbus addresses (register 105) for the various Modules are:

DINCon II: 10

DINPres II: 20

Four physical layer interfaces are available for DIN II Module communications:

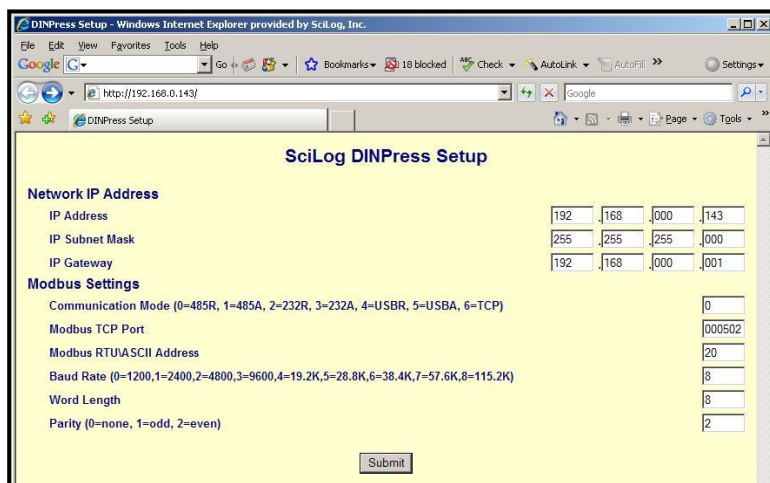
RS232 – Modbus/RTU or Modbus/ASCII

RS485 – Modbus/RTU or Modbus/ASCII

Ethernet - Modbus/TCP

USB - Modbus/RTU or Modbus/ASCII

The active Modbus interface is selected by connecting to the modules built-in web server. Connect using an Ethernet patch cable and a hub on your network, or directly to the unit with an Ethernet crossover cable. The default IP addresses are 192.168.0.142 for the DINCon II, 192.168.0.143 for the DINPres II. It may be necessary to create a new connection or modify and existing one. Make any changes required to configuration and click on “Submit” to save them to the module.



Any changes made via this interface require a power cycle of the module to take effect.

Modbus register definitions are listed below for each type – DINCon II and DINPres II.



For floating point values, the DIN II modules use the standard IEEE-754 format. To read these via a Modbus test application such as Modbus Poll, set the format to little endian byte swapped.

Depending on the controller in use, the registers may need to be offset by one.

The Modbus address and communication parameters for a module can be changed by writing to registers 104-109 as a block (at the same time).

The Modules contain a Real Time Clock that will be set to the current date and the end users time zone prior to shipment from Parker. If re-setting the Real Time Clock is needed, the data must also be written in one continuous Modbus multi-register write operation to registers 130-137.

The DINPres II Module has a selectable Data Refresh Rate, with the default of 13 milliseconds being raw data. (Register 143) If the default setting is not used, a conditioned signal is provided.

The Sensors have individual ID numbers and calibration information stored in, and printed on them. Values relating to the ID numbers can be found in registers 201-206 for Sensor 1, 241-246 for Sensor 2 and 281-286 for Sensor 3. (Note: The first letter of this ID number, a “C”, “S” or “A”, is not in any of the registers.)

Units and Alarm Limits:

The Modules provide the ability to set the desired Units for the outputs, as well as appropriate High and Low Alarm Limits. The alarms are absolute and not dependent upon signal direction (i.e. The signal does not have to be above the low alarm limit value first to trip it). The register list in section C below lists the available units for each Module. All Alarm Limits default to 0.0 and are thereby initially disabled.

DINCon II:

Conductivity Units:	Default: μ S	Register 140
Temperature Units:	Default: $^{\circ}$ C	Register 143
Conductivity Limits:	Low:	Registers 160-161
	High:	Registers 162-163
Temperature Limits:	Low:	Registers 164-165
	High:	Registers 166-167

DINPres II:

Pressure Units:	Default: psi	Register 140
P1 Pressure Limits:	Low:	Registers 160-161
	High:	Registers 162-163
P2 Pressure Limits:	Low:	Registers 164-165
	High:	Registers 166-167
P3 Pressure Limits:	Low:	Registers 168-169
	High:	Registers 170-171





Hardware Calibration:

The factory hardware calibration data is available as read only values and is only performed on new modules with a special test fixture at the time of manufacture.

Note on use of SciPres II Sensors:

The DINPres II reads and utilizes calibration data from SciPres II Sensors that have been calibrated to two points, 0 and 30 psi. It has also been equipped a Max Pressure Watchdog feature.

The Max Pressure Watchdog feature records in the sensor's memory the maximum pressure seen by the sensor while it is connected to the DINPres II. The maximum recommended pressure for the sensors is 60 psi. If this is exceeded, problems with leakage and functionality can occur. This value is available in the appropriate register; see the list in the next section.

Please Note: If the company Metrology Department tests the sensors using a regulated air source, care must be taken to avoid high inrush pressure. Much like inrush current in electronics, if the valve to the regulator is opened too fast, this can expose the sensor to higher pressures than the regulator is set for. This will be reflected in the Max Pressure value, and may risk damage to the sensor. This can be reset or cleared if desired.

Modbus Register List:

DINCon II Register List

ADDRESS	ACCESS	FORMAT	VALUE	Default
90-99	R	ASCII String	DINCon Serial Number	
100	R	16 bit	Model Number	0
			0 = DINCon	
101-102	R	IEEE Float	Software Version	
103	R/W	16 bit	Reset Control	
			bit 0 = System Reset	
			bit 1 = Reset to Defaults	
			bit 2 = Alarm Reset	
104-105	R/W	16 bit	Modbus Address	
			104 may need be set to 0xa55a (hex)	0xa55a
			registers 104-109 must be written as a block	
			105 contains Modbus address	10
106	R/W	16 bit	Modbus Mode	0
			0 = RS485 RTU	
			1 = RS485 ASCII	
			2 = RS232 RTU	
			3 = RS232 ASCII	
			4 = USB RTU	
			5 = USB ASCII	
			6 = TCP	
107	R/W	16 bit	Modbus Baud Rate (38400 default)	6
			0 = 1200	
			1 = 2400	
			2 = 4800	
			3 = 9600	
			4 = 19200	
			5 = 28800	
			6 = 38400	
			7 = 57600	
			8 = 115200	
108	R/W	16 bit	Modbus Serial Word Length (7 or 8)	8
109	R/W	16 bit	Modbus Serial Parity (Even, 1 Stop Bit default)	2
			0 = none, 2 Stop Bits	
			1 = odd, 1 Stop Bit	
			2 = even, 1 Stop Bit	
110	R/W	16 bit	TCP Address P1	192
111			TCP Address P2	168
112			TCP Address P3	0



DINCon II Register List

ADDRESS	ACCESS	FORMAT	VALUE	Default
113			TCP Address P4	142
114	R/W	16 bit	TCP Mask P1	255
115			TCP Mask P2	255
116			TCP Mask P3	255
117			TCP Mask P4	0
118	R/W	16 bit	TCP Gateway P1	192
119			TCP Gateway P2	168
120			TCP Gateway P3	0
121			TCP Gateway P4	1
130	R/W	16 bit	RTCC Control	
			bit0: Set Clock Values	
			Registers 130-137 must be written as a block	
131	R/W	16 bit	Day of Week (1-7)	
132	R/W	16 bit	Month	
133	R/W	16 bit	Day	
134	R/W	16 bit	Year	
135	R/W	16 bit	Hour (24)	
136	R/W	16 bit	Minute	
137	R/W	16 bit	Second	
140	R/W	16 bit	Conductivity Units	0
			0 = uS	
			1 = mS	
			2 = ppm KCl	
			3 = ppm NaCl	
			4 = ppm 442	
141-142	R/W	IEEE Float	Cal Concentration (default 12.88mS)	12.88
143	R/W	16 bit	Temperature Units	0
			0 = C	
			1 = F	
144-145	R/W	IEEE Float	Cal Temperature (default 25.0C)	25.0
150	R	16 bit	Conductivity Status	
			bit0 = Set means disconnected	
			bit1 = Set means uncalibrated	
			bit2 = Set means low alarm	
			bit3 = Set means high alarm	
151-152	R	IEEE Float	Conductivity Value	
153	R	16 bit	Temperature Status	
			bit0 = Set means disconnected	
			bit1 = Set means uncalibrated	
			bit2 = Set means low alarm	



DINCon II Register List

ADDRESS	ACCESS	FORMAT	VALUE	Default
			bit3 = Set means high alarm	
154-155	R	IEEE Float	Temperature Value	
160-161	R/W	IEEE Float	Conductivity Alarm Limit - Low	0.0
162-163	R/W	IEEE Float	Conductivity Alarm Limit - High	0.0
164-165	R/W	IEEE Float	Temperature Alarm Limit - Low	0.0
166-167	R/W	IEEE Float	Temperature Alarm Limit - High	0.0
180	R/W	IEEE Float	Temperature Reference	25.0
201	R/W	16 bit	Sensor ID Type	
			0 = Luer	
			1 = 3/8" Barb	
			2 = 1/2" Barb	
			3 = 3/4" TC	
			4 = 1" TC	
			100 = Cal Fixture	
202	R/W	16 bit	Sensor ID Material	
			0 = N/A	
			1 = Polysulfone	
203	R/W	16 bit	Sensor ID Month	
204	R/W	16 bit	Sensor ID Year	
205	R/W	16 bit	Sensor ID Lot	
206	R/W	16 bit	Sensor ID Unit Number	
208	R/W	IEEE Float	Sensor Temperature Offset (TO)	
210	R/W	IEEE Float	Sensor Cal Factor (CF)	

DINPres II Register List:

ADDRESS	ACCESS	FORMAT	VALUE	DEFAULT
90-99	R	ASCII String	DINPres Serial Number	
100	R	16 bit	Model Number	1
			1 = DINPres	
101-102	R	IEEE Float	Software Version	
103	R/W	16 bit	Reset Control	
			bit 0 = System Reset	
			bit 1 = Reset to Defaults	
			bit 2 = Alarm Reset	
104-105	R/W	16 bit	Modbus Address	
			104 may need to be set to 0xa55a	0xa55a
			registers 104-109 must be written as a block	
			105 contains Modbus address	20
106	R/W	16 bit	Modbus Mode	0
			0 = RS485 RTU	
			1 = RS485 ASCII	
			2 = RS232 RTU	
			3 = RS232 ASCII	
			4 = USB RTU	
			5 = USB ASCII	
			6 = TCP	
107	R/W	16 bit	Modbus Baud Rate (38400 Default)	6
			0 = 1200	
			1 = 2400	
			2 = 4800	
			3 = 9600	
			4 = 19200	
			5 = 28800	
			6 = 38400	
			7 = 57600	
			8 = 115200	
108	R/W	16 bit	Modbus Serial Word Length (7 or 8)	8
109	R/W	16 bit	Modbus Serial Parity (Even, 1 Stop Bit default)	2
			0 = none, 2 Stop Bits	
			1 = odd, 1 Stop Bit	
			2 = even, 1 Stop Bit	
110	R/W	16 bit	TCP Address P1	192
111			TCP Address P2	168
112			TCP Address P3	0
113			TCP Address P4	143
114	R/W	16 bit	TCP Mask P1	255
115			TCP Mask P2	255



DINPres II Register List:

ADDRESS	ACCESS	FORMAT	VALUE	DEFAULT
116			TCP Mask P3	255
117			TCP Mask P4	0
118	R/W	16 bit	TCP Gateway P1	192
119			TCP Gateway P2	168
120			TCP Gateway P3	0
121			TCP Gateway P4	1
130	R/W	16 bit	RTCC Control	
			bit0: Set Clock Values	
			Registers 130-137 must be written as a block	
131	R/W	16 bit	Day of Week (1-7)	
132	R/W	16 bit	Month	
133	R/W	16 bit	Day	
134	R/W	16 bit	Year	
135	R/W	16 bit	Hour (24)	
136	R/W	16 bit	Minute	
137	R/W	16 bit	Second	
140	R/W	16 bit	Pressure Units	0
			0 = psi	
			1 = kPa	
			2 = bar	
			3 = mmHg	
141-142	R/W	IEEE Float	Cal Pressure (Default 30psi)	30.0
143	R/W	16 bit	Data Refresh Rate	6
			0 = 13 milliseconds	
			1 = 25 ms	
			2 = 50 ms	
			3 = 125 ms	
			4 = 250 ms	
			5 = 350 ms	
			6 = 500 ms	
			7 = 750 ms	
			8 = 1 second	
			9 = 1.5 seconds	
			10 = 2 seconds	
			11 = 4 seconds	
150	R	16 bit	P1 Status	
			bit 0 = Set means Disconnected	
			bit 1 = Set means Uncalibrated	
			bit 2 = Set means Low Alarm	
			bit 3 = Set means High Alarm	
151-152	R	IEEE Float	P1 Pressure Value	



DINPres II Register List:

ADDRESS	ACCESS	FORMAT	VALUE	DEFAULT
153	R	16 bit	P2 Status	
			bit 0 = Set means Disconnected	
			bit 1 = Set means Uncalibrated	
			bit 2 = Set means Low Alarm	
			bit 3 = Set means High Alarm	
154-155	R	IEEE Float	P2 Pressure Value	
156	R	16 bit	P3 Status	
			bit 0 = Set means Disconnected	
			bit 1 = Set means Uncalibrated	
			bit 2 = Set means Low Alarm	
			bit 3 = Set means High Alarm	
157-158	R	IEEE Float	P3 Pressure Value	
160-161	R/W	IEEE Float	P1 Pressure Alarm Limit - Low	0.0
162-163	R/W	IEEE Float	P1 Pressure Alarm Limit - High	0.0
164-165	R/W	IEEE Float	P2 Pressure Alarm Limit - Low	0.0
166-167	R/W	IEEE Float	P2 Pressure Alarm Limit - High	0.0
168-169	R/W	IEEE Float	P3 Pressure Alarm Limit - Low	0.0
170-171	R/W	IEEE Float	P3 Pressure Alarm Limit - High	0.0
201	R/W	16 bit	P1 Sensor ID Type	
			0 = Luer	
			1 = 3/8" Barb	
			2 = 1/2" Barb	
			3 = 3/4" TC	
			4 = 1" TC	
			100 = Cal Fixture	
202	R/W	16 bit	P1 Sensor ID Material	
			0 = N/A	
			1 = Polysulfone	
203	R/W	16 bit	P1 Sensor ID Month	
204	R/W	16 bit	P1 Sensor ID Year	
205	R/W	16 bit	P1 Sensor ID Lot	
206	R/W	16 bit	P1 Sensor ID Unit Number	
208	R/W	IEEE Float	P1 Sensor Pressure Offset (PZ)	
210	R/W	IEEE Float	P1 Sensor Cal Factor (CF)	
212	R/W	IEEE Float	P1 Sensor Cal Pressure (CP1)	
214	R/W	IEEE Float	P1 Sensor Cal Factor 2 (CF2)	
216	R/W	IEEE Float	P1 Sensor Cal Pressure 2 (CP2)	
235	R/W	IEEE Float	P1 Sensor Max Pressure	
237	R/W	16 bit	P1 Sensor MaxP, Day	
238	R/W	16 bit	P1 Sensor MaxP, Month	
239	R/W	16 bit	P1 Sensor MaxP, Year	



DINPres II Register List:

ADDRESS	ACCESS	FORMAT	VALUE	DEFAULT
241	R/W	16 bit	P2 Sensor ID Type	
			0 = Luer	
			1 = 3/8" Barb	
			2 = 1/2" Barb	
			3 = 3/4" TC	
			4 = 1" TC	
			100 = Cal Fixture	
242	R/W	16 bit	P2 Sensor ID Material	
			0 = N/A	
			1 = Polysulfone	
243	R/W	16 bit	P2 Sensor ID Month	
244	R/W	16 bit	P2 Sensor ID Year	
245	R/W	16 bit	P2 Sensor ID Lot	
246	R/W	16 bit	P2 Sensor ID Unit Number	
248	R/W	IEEE Float	P2 Sensor Pressure Offset (PZ)	
250	R/W	IEEE Float	P2 Sensor Cal Factor (CF)	
252	R/W	IEEE Float	P2 Sensor Cal Pressure (CP1)	
254	R/W	IEEE Float	P2 Sensor Cal Factor 2 (CF2)	
256	R/W	IEEE Float	P2 Sensor Cal Pressure 2 (CP2)	
275	R/W	IEEE Float	P2 Sensor Max Pressure	
277	R/W	16 bit	P2 Sensor MaxP, Day	
278	R/W	16 bit	P2 Sensor MaxP, Month	
279	R/W	16 bit	P2 Sensor MaxP, Year	
281	R/W	16 bit	P3 Sensor ID Type	
			0 = Luer	
			1 = 3/8" Barb	
			2 = 1/2" Barb	
			3 = 3/4" TC	
			4 = 1" TC	
			100 = Cal Fixture	
282	R/W	16 bit	P3 Sensor ID Material	
			0 = N/A	
			1 = Polysulfone	
283	R/W	16 bit	P3 Sensor ID Month	
284	R/W	16 bit	P3 Sensor ID Year	
285	R/W	16 bit	P3 Sensor ID Lot	
286	R/W	16 bit	P3 Sensor ID Unit Number	
288	R/W	IEEE Float	P3 Sensor Pressure Offset (PZ)	
290	R/W	IEEE Float	P3 Sensor Cal Factor (CF)	
292	R/W	IEEE Float	P3 Sensor Cal Pressure (CP1)	
294	R/W	IEEE Float	P3 Sensor Cal Factor 2 (CF2)	



DINPres II Register List:

ADDRESS	ACCESS	FORMAT	VALUE	DEFAULT
296	R/W	IEEE Float	P3 Sensor Cal Pressure 2 (CP2)	
315	R/W	IEEE Float	P3 Sensor Max Pressure	
317	R/W	16 bit	P3 Sensor MaxP, Day	
318	R/W	16 bit	P3 Sensor MaxP, Month	
319	R/W	16 bit	P3 Sensor MaxP, Year	