1.4.6 Channels 1-3 connector signals

Recorder Faceplate Connector	Pin	Name	Dir	Electrical Desc	Voltage Range	Note
Channels 1-3	A	Ch1+	In	Channel 1 input +	±10 Volts	
On All models	B	Ch1–	In	Channel 1 input –	±10 Volts	
	C	Ch2+	In	Channel 2 input +	±10 Volts	
	D	Ch2–	In	Channel 2 input –	±10 Volts	
	E	Ch3+	In	Channel 3 input +	±10 Volts	
	F	Ch3–	In	Channel 3 input –	±10 Volts	
	G	AGnd	In	Analog ground		
	H	Pwr 123	Out	Sensor Power	10-15 Volts	1, 2, 3
	J	PGnd	-	Power ground		
	K	CalEn– 123	Out	Calibration Enable active low	OC	4, **6**
	L	CalEn+ 123	Out	Calibration Enable active high	OC	5, **6**
	M	Center– 123	Out	Center Enable active low	OC	4, **6**
	N	CalSig 123	Out	Calibration signal	±5 Volts	6
	P	Aux1	In	Aux (Mass Position) channel 1	±10 Volts	6
	R	Aux2	In	Aux (Mass Position) channel 2	±10 Volts	6
	S	Aux3	In	Aux (Mass Position) channel 3	±10 Volts	6
	T	DGND	-	Digital Ground		
	U	Center+ 123	Out	Center Enable active high	OC	5, **6**
	V	Sensor ID1	In/ Out	Sensor ID	0-5 Volts	6

Note: 1 = Tracks main input voltage

Note: 2 = Protected by self resetting fuse.

Note: 3 = Output on/off controlled by software

Note: 4 = Open Collector, pulls to Ground

Note: 5 = Open Collector, pulls to + 5 V

Note: 6 = Functions provided by Optional RT527 Sensor Control board

1.4.7 Channels 4-6 connector signals

Recorder Faceplate Connector	130 Pin	Name	Dir	Electrical Desc	Voltage Range	Note
Channels 4-6	A	Ch4+	In	Channel 4 input +	±10 Volts	
On All mod-els	B	Ch4–	In	Channel 4 input –	±10 Volts	
	C	Ch5+	In	Channel 5 input +	±10 Volts	
	D	Ch5–	In	Channel 5 input –	±10 Volts	
	E	Ch6+	In	Channel 6 input +	±10 Volts	
	F	Ch6–	In	Channel 6 input –	±10 Volts	
	G	AGnd	In	Analog ground		
	H	Pwr 456	Out	Sensor Power	10-15 Volts	1, 2, 3
	J	PGnd	-	Power ground		
	K	CalEn– 456	Out	Calibration Enable active low	OC	4, **6**
	L	CalEn+ 456	Out	Calibration Enable active high	OC	5, **6**
	M	Center– 456	Out	Center Enable active low	OC	4, **6**
	N	CalSig 456	Out	Calibration signal	±5 Volts	6
	P	Aux4	In	Aux (Mass Posi-tion) channel 4	±10 Volts	6
	R	Aux5	In	Aux (Mass Posi-tion) channel 5	±10 Volts	6
	S	Aux6	In	Aux (Mass Posi-tion) channel 6	±10 Volts	6
	T	DGND	-	Digital Ground		
	U	Center+ 456	Out	Center Enable active high	OC	5, **6**
	V	Sensor ID2	In/Out	Sensor ID	0-5 Volts	6

Note: 1 = Tracks main input voltage

Note: 2 = Protected by self resetting fuse.

Note: 3 = Output on/off controlled by software

Note: 4 = Open Collector, pulls to Ground

Note: 5 = Open Collector, pulls to + 5 V

Note: 6 = Functions provided by Optional RT527 Sensor Control board

CHANNEL 1-3

PTO-7A-14-19S

PIN	DESCRIPTION
A	CH+1
B	CH-1
C	CH+2
D	CH-2
E	CH+3
F	CH-3
G	AGND
H	PWR
J	PGND
K	CALEN-
L	CALEN+
M	CENTER-
N	CALSIG
P	AUX1
R	AUX2
S	AUX3
T	DGND
U	CENTER+
V	SID

CHANNEL 4-6

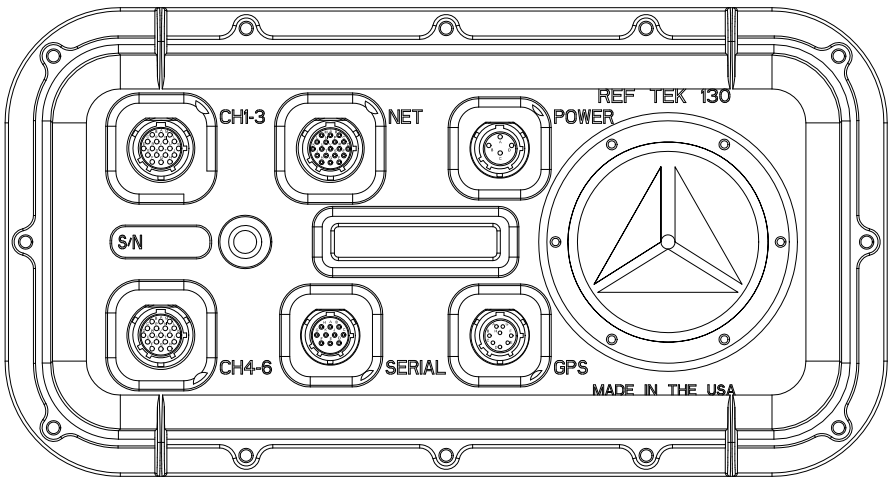
PTO-7A-14-19S

PIN	DESCRIPTION
A	CH4+
B	CH4-
C	CH5+
D	CH5-
E	CH6+
F	CH6-
G	AGND
H	PWR
J	PGND
K	CALEN-
L	CALEN+
M	CENTER-
N	CALSIG
P	AUX4
R	AUX5
S	AUX6
T	DGND
U	CENTER+
V	SID

NET

PTO-7A-14-15P

PIN	DESCRIPTION
A	TX A
B	RX A
C	RTS A
D	CTS A
E	DSR A
F	DCD A
G	COMP1PWR
H	ENET TX+
J	ENET TX-
K	ENET RX+
L	ENET RX-
M	ENETPWR
N	DGND
P	DGND
R	DTR A
S	TRIGOUTB
T	TRIGINB
U	+12VDC
V	DSC



POWER

PTO-7A-12-4S

PIN	DESCRIPTION
A	+12VDC
B	+12VDC
C	DGND
D	DGND

GPS

PTO-7A-12-8S

PIN	DESCRIPTION
A	GPS 1Hz
B	DGND
C	GPS RX
D	DGND
E	GPS TX
F	PWR 12V
G	GPS RST
H	PWR 5V

SERIAL

PTO-7A-12-10P

PIN	DESCRIPTION
A	TX B
B	RX B
C	RTS B
D	CTS B
E	DSR B
F	DCD B
G	DTR B
H	X
J	DGND
K	PWR

REFRACTION TECHNOLOGY INC

130 PIN AND CONNECTOR CONFIGURATION

SIZE	CODE IDENT NO.	DRAWING NO.
B		130 PIN CONFIG

SCALE		SHEET OF
2:1		