RHINO PULSER DRIVERS

MODEL – LPD175
MDM Connector
175C Rated
Linear Pulser Driver

www.rhinoamerican.com
1-855-925-4520
MADE IN AMERICA

PULSER DRIVERS FOR MEASUREMENT WHILE DRILLING

The latest generation of our Linear Pulser Driver is built even tougher than before with improved power utilization and even more advanced features. It can operate most legacy pulser mechanical sections and many firmware parameters can be adjusted to ensure full compatibility with any pulser system. The rugged chassis construction allows it to easily handle today's harsh drilling environments. Advanced firmware features such as servo poppet recalibration and travel distance recovery can be enabled to prevent jamming down-hole and improve pulser survivability. Gamma sensors can be connected directly to the pulser driver and share a single pressure housing which eliminates a tool connection and a potential point of failure. A Vibration Monitoring Tool can be added to the chassis allow you to record down-hole shock and vibration data.

FEATURES

RUGGED DESIGN
Field proven design, temperature rated up to 175°C

LOW POWER TECHNOLOGY
Advanced power optimization with an idle current draw of 7mA

3 MONTH WARRANTY
Quick Repairs – Made in America

OPERATIONAL PARAMETERS

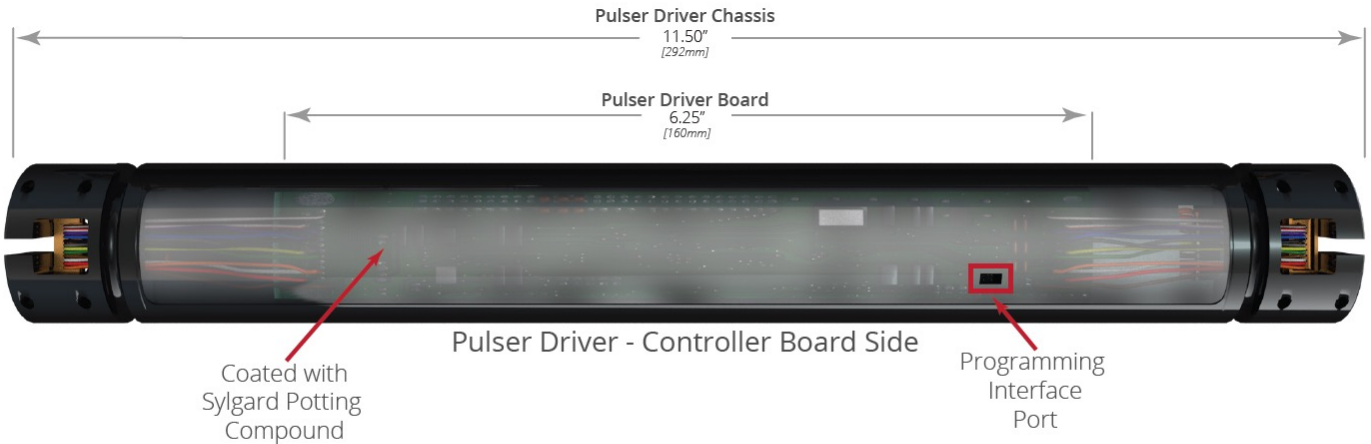|	
Flow Detection	3-Axis Accelerometer
Operating Amperage	7 mA
Voltage	16 – 36 V
Operating Temperature	-40°C to 175°C
Compatible with all Linear Drive Pulsers	

1

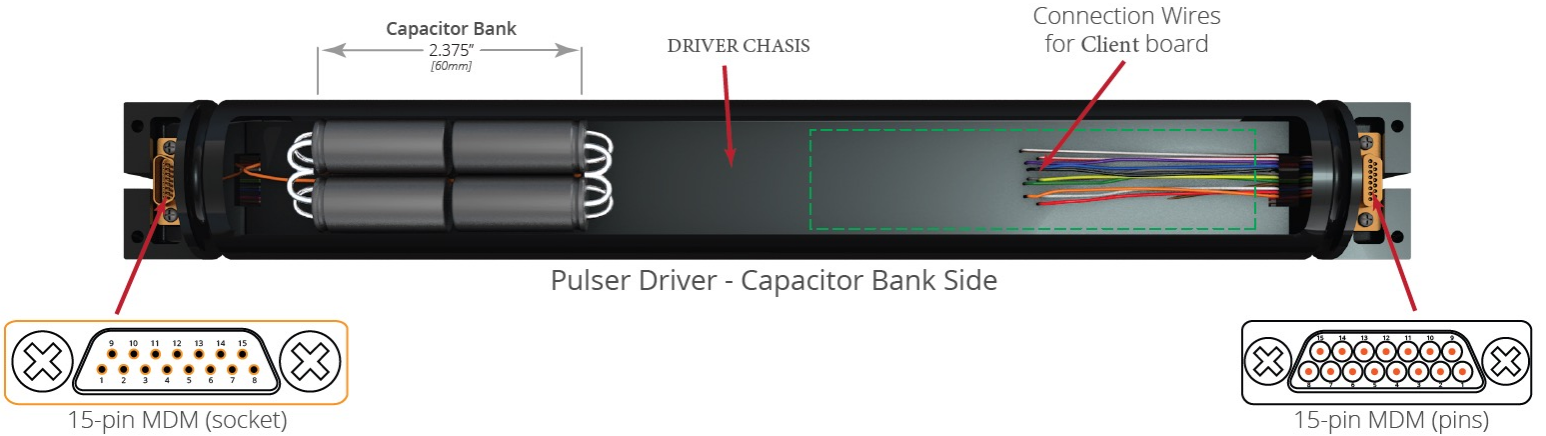MODEL – LPD175
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LPD175 DIMENTIONS AND DRIVER LAYOUT

Pulser Driver Chassis
11.50"
[292mm]

Pulser Driver Board
6.25"
[160mm]

Pulser Driver - Controller Board Side

Coated with
Sylgard Potting
Compound

Programming
Interface
Port

Downhole

Uphole

Capacitor Bank
2.375"
[60mm]

DRIVER CHASIS

Connection Wires
for **Client** board

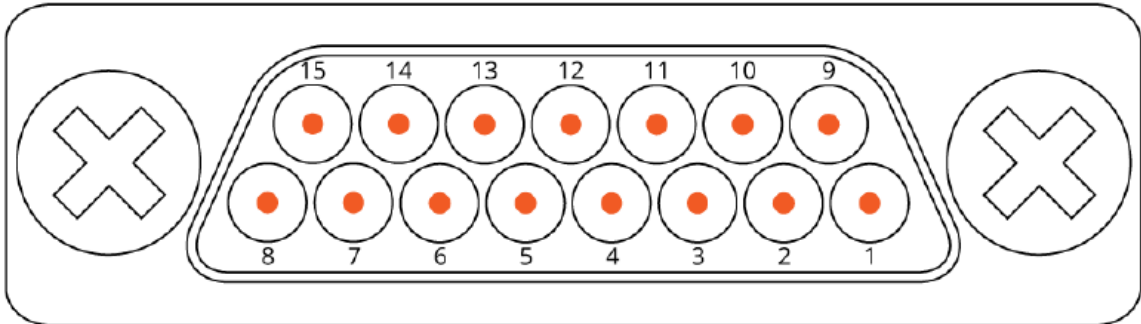Pulser Driver - Capacitor Bank Side

15-pin MDM (socket)

15-pin MDM (pins)

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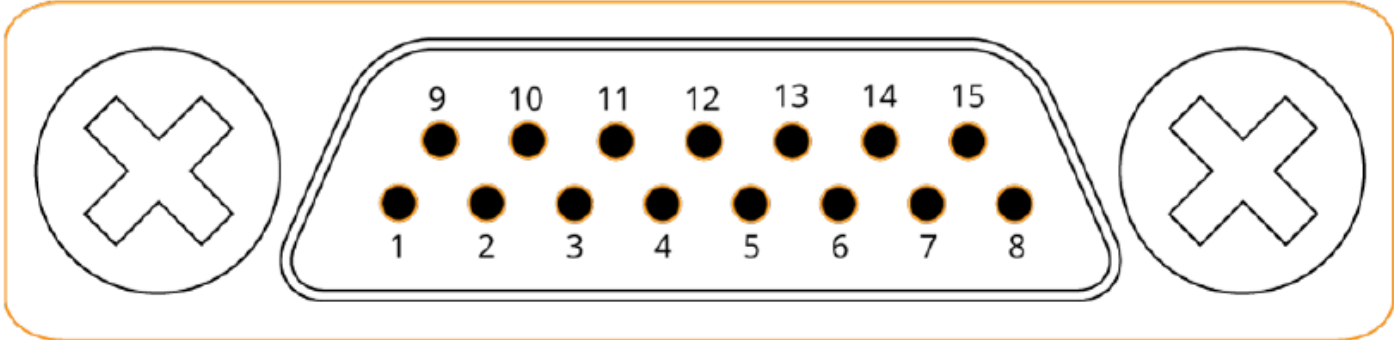MADE IN AMERICA

LPD175 TOP SIDE MDM CONNECTOR PIN END – 15P

Pin #	Circuit	Direction	Signal Level
1	Common Ground	Common	0V
2, 3	N/A	N/A	-
4	Battery Bus	Input	18 ... 38 VDC
5	N/A	N/A	-
6	Pulse Line	Input	Low = 0V, High = +5V
7	Flow Switch Line	Output	Low = 0V, High = +5V
8	N/A	N/A	-
9, 10	N/A	N/A	Reserved for future expansion
11 - 15	Proprietary Interface Lines	N/A	!!! Do not connect any wires !!!

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LPD175 BOTTOM SIDE MDM CONNECTOR PIN END – 15S

Pin #	Camber/APS Pulser	Bluestar Pulser
1	Motor Line #3	Motor coil line #3
2	Hall sensor #1	Hall sensor #1
3	*Service Interface* *	**Hall Sensor Power Positive**
4	Hall sensor #2	Hall sensor #2
5	Hall sensor #3	Hall sensor #3
6	Hall Sensor Power Positive	Motor Line #1
7	Motor Line #2	Motor Line #2
8	Hall Sensor Power Negative	Hall Sensor Power Negative
9	**Motor Line #1**	*Service Interface* *
10	Common Ground *	Common Ground *
11	*Service Interface* *	*Service Interface* *
12	*Service Interface* *	*Service Interface* *
13	Motor Line #3	Motor coil line #3
14	Motor Line #2	Motor coil line #2
15	Motor Line #1	Motor Line #1

* For testing only.