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MPE REPORT

Manufacturer: **Magnum Energy Solutions**
43 Village Way
Hudson, Ohio 44236 USA

Applicant: Same as Above

Product Name: **Transceiver Module (LTCM300U, LTCM310U);**
Scavenger Transceiver Module (LSTM300U)

Product Description: **902.875 MHz Transmitter Module**

Operating Voltage/Frequency: **120V/60 Hz**

Model(s): **LTCM300U***

**Denotes actual model tested of product family that includes the following: LSTM300U is same module, but application is in sensor. LTCM310U is same module, but not programmable.*

FCC ID: **2ANUH-LSTM300U**

Testing Commenced: Oct. 12, 2017

Testing Ended: Feb. 1, 2018

Test Results: **In Compliance**

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications and/or manufacturer's statement. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:
• **KDB447498**



Order Number: F2LQ10353

Client: Magnum Energy Solutions
Model: LTCM300U

Evaluation Conducted by:

Joe Knepper, EMC Proj. Eng.

Report Reviewed by:

Ken Littell, Director of EMC & Wireless Operations

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**1 ADMINISTRATIVE INFORMATION****1.1 Measurement Location:**

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2LQ10353-03E	First Issue	Feb. 15, 2018	K. Littell



2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
None



3 ENGINEERING STATEMENT

This report has been prepared on behalf of Magnum Energy Solutions to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.



4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: Transceiver Module

Model: LTCM300U*

Serial No(s): 274703087664; 274703032880 (wire antenna tests only)

FCC ID: 2ANUH-LSTM300U

**Denotes actual model tested of product family that includes the following: LSTM300U is same module, but application is in sensor. LTCM310U is same module, but not programmable.*

4.2 Trade Name:

Magnum Energy Solutions

4.3 Power Supply:

Non-Rechargeable Batteries; PhiHong PSAA20R-033

4.4 Applicable Rules:

KDB447498

4.5 Equipment Category:

Radio Transmitter-DTS

4.6 Antenna:

3.3 dBi Whip Antenna

1.2 dBi Whip Antenna

4.7 Accessories:

N/A

4.8 Test Item Condition:

The equipment to be tested was received in good condition.



5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements:

Limit: .6mW/cm²

Formula used for result: $\frac{E.I.R.P.}{4 \pi R^2}$

Results: E.I.R.P. = 17.5mW

$$\frac{17.5mW}{4 \pi R^2} = \frac{17.5mW}{5026.55} = 0.00348mW/cm^2$$