Marine Dimmer Switch   Available Functions

X indicates functions available in the first prototype. See below for descriptions of each.

Description	Set	Read Setting	Read Value
V_{in}			
V_{out}	X	X	
I_{in}			
I_{out}	X	X	
P_{in}			
P_{out}			
Temperature			
FB point			
Efficiency			
Serial Number	N/A	N/A	X
Unit Number	X	X	N/A
Location on Vessel	X	X	N/A

V_{in}:
When the feedback point is set to input voltage, the input voltage regulation point can be set.
The input voltage set point can be read back and the actual input voltage can be measured and read back.

V_{out}:
When the feedback point is set to output voltage, the output voltage regulation point can be set.
The output voltage set point can be read back and the actual output voltage can be measured and read back.

I_{in}, I_{out}:
The input and output current limit values can be set, read back and the actual values measured and read back the same as
input and output voltages V_{in} and V_{out}. (see above).

Feedback Point:
The feedback point can be set. And the setting can be read back.
The feedback point allows for regulation of any quantity from the following list: V_{in}, V_{out}, I_{in} and I_{out}.

Temperature:
The Temperature Limit value can be set to any temperature between 2.6°C and 105°C in 0.4° increments.
The Temperature Limit setting can be read back and the actual temperature can be measured and read back.

Efficiency:
By measuring input and output voltages and currents and reading them back, an efficiency calculation can be made and
displayed.

Unit Number:
A unit-number can be set and read back by the customer (initially set at factory to a value of zero).

Location on Vessel:
A lengthy description of the unit's location on the vessel can be entered into the units memory by the customer. This text
can be read back to make it easy to find units in need of servicing.

Serial Number:
An indelible serial number is preprogrammed into each unit at the time of manufacture.
This number can be read back and displayed.