

Introduction:

The Odyssey gauge series from Dakota Digital, Inc. incorporates the reliability and quality of our standard gauges, along with several unique features and easy mounting. These features include:

- Quick response bar graph display.
- Peak current hold.
- Night dimming with lens label lighting.
- High Visibility VFD display for sunlight readability.

The amp current meter will read the current through a wire that feeds power for a stereo amplifier or bank of amplifiers. The wire is monitored by passing it through the opening in the sensor. The power wire to be monitored does not need to be cut into or separated so there is no power loss.

The bar display will dynamically show the current being drawn through the wire fed through the sensor opening. When the current decreases, a bar will stay lit indicating where the peak value was. This bar will stay lit for a few seconds and then drop back.

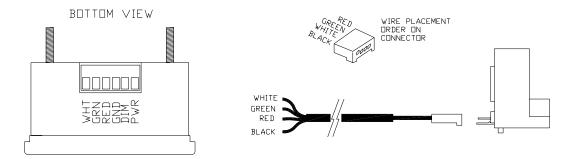
The current ranges go from 50 ampere full scale for the ODY-20-3 to 500 ampere full scale for the ODY-20-6.

Operation:

The gauge needs the PWR and GND terminals connected to 12 volt power and ground respectively to light up. The sensor cable connects to the GND, RED, GRN, and WHT terminals. The brown plug at the other end of the cable plugs into the sensor. When the DIM terminal has 12 volts, it will dim the display for night viewing. The power wire to be monitored will need to be passed through the square opening on the sensor. The arrow should point toward the end of the wire which goes to the stereo amplifier.

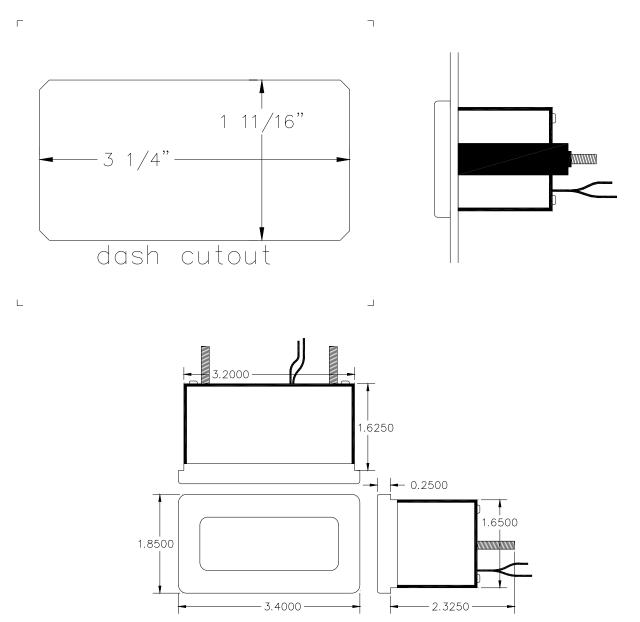
Wiring:

PWR	-	connect to accessory, 12 volt power.
DIM	-	connect to the tail light circuit.
GND	-	connect to a good ground point in the vehicle and also to the black wire
		from the sensor cable.
RED	-	connect to the red wire from the sensor cable.
GRN	-	connect to the green wire from the sensor cable.
WHT	-	connect to the white wire from the sensor cable



Mounting:

The gauge requires a rectangular cut out that is about 2 9/16 x 1 11/16. It should be inserted into the opening from the front and the U-clamp will be installed from the back. Tighten the two nuts on the U-clamp so that the gauge is secure. Figure 2 shows the required cut out for the gauge. Figure 3 shows how the gauge mounts.



Troubleshooting guide.

Problem	Possible cause	Solution		
Gauge will not light up	PWR terminal does not have power.	Connect to a location that has power.		
	GND terminal is not getting a good ground.	Connect ground to a different location.		
	Gauge is damaged.	Return gauge for repair. (see instructions)		
Gauge lights up, but does not read correctly.	Loose connection on PWR terminal.	Inspect connections and splices on power wire.		
-	Poor ground connection.	Nove ground to different location		
	Sensor is not connected.	Make sure sensor connector is plugged in securely.		
		Make sure sensor cable wires are connected properly.		
	Sensor is not connected	Check sensor cable connections.		
	properly.	Perform voltage check listed below: BLACK: 0V		
		RED: +15V		
		GREEN: -15V		
	Wire to be monitored is	The arrow on the sensor indicates the direction		
	passing throught the	of positive current flow from the battery to		
	sensor backwards.	the load. Check connections.		
	Sensor is incorrect type.	Make sure correct sensor is connected to the gauge. (SEN-20-2)		
	Voltage or wiring problem in vehicle wiring harness.	Check wiring harness for loose or damaged wires.		
	Gauge is not calibrated correctly.	Gauge must be recalibrated. (contact factory)		
Gauge will not dim.	DIM terminal is not connected correctly.	Check wiring connections.		
Gauge remains dim at all	DIM terminal is getting power	Connect DIM terminal to location that only		
times.	all of the time.	has power when the headlights are on.		
	Battery is very low.	Recharge or replace vehicle battery.		
	Gauge is damaged.	Return gauge for repair. (contact factory)		

SERVICE AND REPAIR

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical consultation is available to help you work through any questions or problems you may be having installing one of our units.

Should you ever need to send the unit back for repairs, please package the product in a good quality box along with plenty of packing material. Ship the product by UPS or insured Parcel Post. Be sure to include a complete description of the problem, your full name and address (street address preferred), and a telephone number where you can be reached during the day. An authorization number for products being returned for repair is not needed. Do not send any money. We will bill you for the repair charges. Any returns for warranty work must include a copy of the dated invoice or bill of sale.

Technical specifications

Minimum operating voltage - 7 volts Maximum operating voltage - 18 volts (operating at or near maximum rating for an extended time can damage unit) Typical current draw (@ 13.8V) - 0.13 A

		ODY-20-3	ODY-20-4	ODY-20-5	ODY-20-6
Gauge Resolution	-	1.0A	2.0A	5.0A	10.0A
Gauge Range	-	50A	100A	250A	500A

ODYSSEY SERIES DIGITAL GAUGE LIMITED WARRANTY

DAKOTA DIGITAL (the Company) warrants to the ORIGINAL PURCHASER of this product that should it, under normal use and condition, be proven defective in material or workmanship within 24 MONTHS FROM THE DATE OF PURCHASE, such defect(s) will be repaired or replaced (at the Company's option) without charge for parts or labor directly related to repairs of the defect(s).

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), name, address, phone number, and specification of defects, transportation prepaid, to the factory. This Warranty is valid for the original purchaser only and may not be transferred.

This warranty does not cover nor extend to damage to vehicle electrical system. This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABLITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABLITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other that expressed herein in connection with the sale of this product.

The Company does not warrant that this product cannot be compromised or circumvented. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID TO THE PURCHASER FOR THE PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation if incidental or consequential damage so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



4510 W. 61ST St. N., Sioux Falls, SD 57107 Phone: (605) 332-6513 FAX: (605) 339-4106 www.dakotadigital.com dakotasupport@dakotadigital.com

©Copyright 1998 Dakota Digital Inc.