



Series II

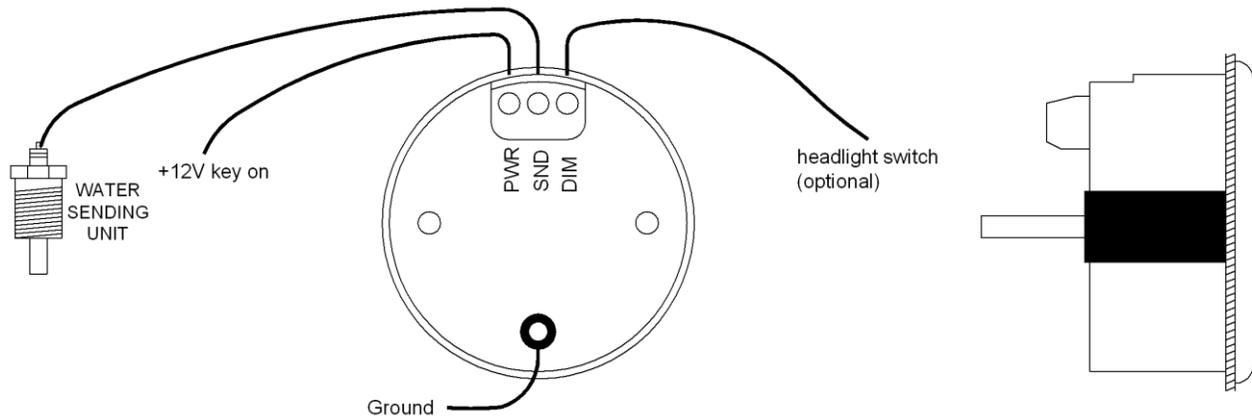
ODYR/SLX-04 WATER TEMPERATURE rev. A

ODYR/SLX-07 OIL TEMPERATURE rev. A

ODYR/SLX-08 TRANS TEMPERATURE rev. A

Wiring:

- GND - Connect to a main ground location.
- PWR - Connect to fused switched 12 VDC power. (An accessory terminal will work for this.)
- DIM - Night Dimming: connect to the head light switch.
- SND - Connect to the temperature sender.



Mounting:

The Series II gauge requires a round hole 2-1/16" in diameter. 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. Gauge depth to the back of the case is 1". Gauge depth including the mounting studs is 1-7/8".

Factory settings:

Sender type: 300 °F.
Hi warning point: 202 °F.

- The water temperature gauge will operate and read correctly between the temperature range of 0 - 300° F (0 - 150°C).
- This gauge has a user adjustable high warning level, which can be set to indicate when the engine is beginning to overheat.

Sender choices:

Standard thread		metric thread	
1/8" NPT	SEN-04-1	M10X1	SEN-04-5
3/8" NPT	SEN-04-2	M12X1.5	SEN-04-6
1/2" NPT	SEN-04-4	M14X1.5	SEN-04-7
		M16X1.5	SEN-04-8

These senders have a tapered self-sealing thread. The engine and sender threads should be cleaned before installation and no tape or sealant should be used on the threads. The sender should be mounted in the engine block or in the intake manifold. Installing in the cylinder head may cause high readings due to the exhaust manifold heat. Make sure that the sender tip can get into the coolant flow. **The sender must be a Dakota Digital 300F temp unit.** Sending units from other manufacturers will cause incorrect readings. If a sender is not connected properly, the display will show "EEE". If the SND terminal is shorted to ground, the display will show "---".

Setting the warning limits and sender setup:

The SND terminal is used to enter and change the warning settings. You will need a wire connected to the SND terminal that can be momentarily grounded while you watch the gauge. The headlights should be off or the DIM terminal unhooked so that it does not interfere with the setup.

1. To enter the set mode, turn the key on with the SND wire not grounded. The gauge will display "SEt".
2. Ground the SND wire. The gauge will display "Snd". (If you wait too long the gauge will exit the setup routine and you will need to repeat step #1).
3. Release the SND wire. The gauge will display the current setup. "30F" is for °F and "15C" is for °C. "40F" and "20C" are for higher temp. rated senders.
4. Each time you momentarily ground the SND wire the setup will change.
5. When the desired setup value is displayed, keep the SND wire grounded for about 2 seconds. The gauge will display "HI".
6. Release the SND wire. The gauge will display a number between 131 - 260 (55 – 126 °C).
7. Each time you momentarily ground the SND wire the number will change.
8. When the desired high warning value is displayed, keep the SND wire grounded for about 2 seconds. The gauge will display "--".
9. Turn the key off.

Troubleshooting guide.

Problem	Possible cause	Solution
Gauge will not light up	PWR terminal does not have power. GND terminal does not have a good ground. Gauge is damaged.	Connect to a location that has power. Connect to a different ground location. Return gauge for service. (see instructions)
Gauge lights up, but does not read correctly.	Loose connection on SND terminal. Poor ground connection. Gauge sender setup is incorrect. Voltage or wiring problem in the vehicle wiring harness.	Reconnect wire. Move ground to different location See "Setting sender setup" in the manual. Check wiring harness for loose or damaged wires.
Gauge lights up, but displays "Er0".	Gauge is damaged.	Gauge must be returned for service. (see instructions)
Gauge lights up, but displays "--".	SND terminal is shorted to ground. Sender is damaged.	Check wire for damaged insulation. Replace if necessary. Replace sender.
Gauge lights up, but displays "EEE".	Sender is not connected to gauge. Wire between gauge and sender is broken. Sender is not grounding properly. Sender is damaged. Gauge is damaged.	Connect SND terminal on gauge to sender terminal. Test and replace wire. Sender grounds through it's mounting threads. Make sure the threads are clean. Do Not Use Tape or Sealant on Sender Threads. Replace sender. Return gauge for service. (see instructions)
Gauge lights up, but displays "Er4".	Gauge is sender setup needs to be reset.	See "Setting sender setup" in the manual.
Gauge lights up, but displays "Er5".	Gauge warning points need to be reset.	See "Setting the warning limits" in the manual.
Gauge flashes constantly.	Warning limits are not set properly. Vehicle is overheating.	Reset warning limits. Check coolant system.
Gauge will not dim.	DIM terminal is not connected correctly.	Check wiring connections.
Gauge remains dim at all times.	DIM terminal is getting power all of the time. Battery is very low. Gauge is damaged.	Connect DIM wire to location that only has power when the headlights are on. Recharge or replace vehicle battery. Return gauge for service. (see instructions)

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. Any returns for warranty work must include a copy of the dated invoice or bill of sale.

Technical specifications

Minimum operating voltage	-	7 VDC
Maximum operating voltage	-	17 VDC
(operating at or near maximum voltage for an extended time can damage unit)		
Maximum temperature reading	-	305°F (150°C)
Gauge Resolution	-	1°F (1°C) for 75°F - 260°F
High Warning Range	-	131 – 260 °F (55 – 126 °C)
Gauge accuracy	-	±5°F (±3°C) for 75°F - 260°F
Typical current draw (@ 13.8V)	-	0.1 A

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Should you ever need to send the unit back for repairs, please call our technical support line, (605) 332-6513, to request a Return Merchandise Authorization number. 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 the RMA number on the package, and include a complete description of the problem with RMA number, your full name and address (street address preferred), and a telephone number where you can be reached during the day. Any returns for warranty work must include a copy of the dated sales receipt from your place of purchase. Send no money. We will bill you after repair.

Dakota Digital 24 Month Warranty

DAKOTA DIGITAL 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 Dakota Digital's option.

This warranty does not cover nor extend to damage to the vehicle's systems, and does not cover removal or reinstallation of the product. 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 expressed warranties or liabilities. Any implied warranties, including any implied warranty of merchantability, shall be limited to the duration of this written warranty. Any action for breach of any warranty hereunder, including any implied warranty of merchantability, must be brought within a period of 24 months from date of original purchase. No person or representative is authorized to assume, for Dakota Digital, any liability other than expressed herein in connection with the sale of this product.

⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



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