



# PRESSURE SENSORS AEM P/N 30-2130-XXX

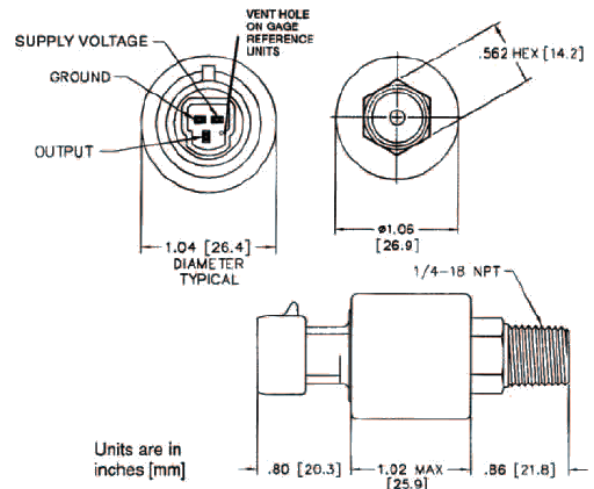
The model 30-2130-XXX family of pressure transducers are manufactured for AEM in an ISO 9001 facility and is specifically designed for pressure measurements in automotive systems. The transducer utilizes ceramic capacitive sensing technology which operates on 5 Vdc and has an amplified, linear output. The connection is a 1/8" Male NPT. Every pressure sensor is tested for specification conformance prior to shipment.

The 30-2130-XXX Kits Contain:

|                     |  |
|---------------------|--|
| <b>30-2130-15</b>   | 15 PSla (1 Bar) sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter, 1/8 NPT to 3/16 Barb Adapter   |
| <b>30-2130-30</b>   | 30 PSla (2 Bar) sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter, 1/8 NPT to 3/16 Barb Adapter   |
| <b>30-2130-50</b>   | 50 PSla (3.5 Bar) sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter, 1/8 NPT to 3/16 Barb Adapter |
| <b>30-2130-75</b>   | 75 PSla (5 Bar) sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter, 1/8 NPT to 3/16 Barb Adapter   |
| <b>30-2130-7B</b>   | 100 PSla (7 Bar) sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter                                |
| <b>30-2130-100</b>  | 100 PSlg sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter  |
| <b>30-2130-150</b>  | 150 PSlg sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter  |
| <b>30-2130-500</b>  | 500 PSlg sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter  |
| <b>30-2130-1000</b> | 1,000 PSlg sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter                                      |
| <b>30-2130-2000</b> | 2,000 PSlg sensor, Mating Connector Assy, 1/8 NPT to -4 Adapter                                      |

### PERFORMANCE SPECIFICATIONS:

|                              |                      |
|------------------------------|----------------------|
| <b>Linearity:</b>            | +/- 0.5% Span MAX    |
| <b>Temp Error -20/+100C:</b> | +/- 2% Span          |
| <b>Ratiometricity:</b>       | +/- .05% Span        |
| <b>Operating Temp:</b>       | -40C to 105C         |
| <b>Burst Pressure:</b>       | 5 x Full Scale       |
| <b>Response Time:</b>        | < 1mS                |
| <b>Wetted Materials:</b>     | 316L Stainless Steel |
| <b>Vibration:</b>            | 10G's peak to peak   |
| <b>Weight:</b>               | 3.0 oz               |
| <b>Supply Current:</b>       | 4mA MAX. at 5 Vdc    |



### Elec. Termination please reference your EMS instructions/pin out sheet:

Integral weatherproof connector includes mating connector with 12" leads connection is as follows:

- Red wire** Do not remove the existing pin tap into +5v reference pin.
- Black wire** Do not remove the existing pin tap into Sensor Ground pin not chassis ground.
- Green/White wire** Remove existing pin tap into Map signal pin - MAP VOLTS parameter in AEMpro should reference the chart below.

### VOLTAGE OUTPUT

| Voltage | 30-2130-15 | 30-2130-30 | 30-2130-50 | 30-2130-75 | 30-2130-7B | 30-2130-100 | 30-2130-150 | 30-2130-500 | 30-2130-1000 | 30-2130-2000 |
|---------|------------|------------|------------|------------|------------|-------------|-------------|-------------|--------------|--------------|
| Range   | 0-15 PSla  | 0-30 PSla  | 0-50 PSla  | 0-75 PSla  | 0-100 PSla | 0-100 PSlg  | 0-150 PSlg  | 0-500 PSlg  | 0-1,000 PSlg | 0-2,000 PSlg |
| 0.5     | -14.7      | -14.7      | -14.7      | -14.7      | -14.7      | 0           | 0           | 0           | 0            | 0            |
| 0.75    | -13.763    | -12.825    | -11.575    | -10.013    | -8.45      | 6.25        | 9.375       | 31.25       | 62.5         | 125          |
| 1       | -12.825    | -10.95     | -8.45      | -5.325     | -2.2       | 12.5        | 18.75       | 62.5        | 125          | 250          |
| 1.25    | -11.888    | -9.075     | -5.325     | -0.637     | 4.05       | 18.75       | 28.125      | 93.75       | 187.5        | 375          |
| 1.5     | -10.95     | -7.2       | -2.2       | 4.05       | 10.3       | 25          | 37.5        | 125         | 250          | 500          |
| 1.75    | -10.013    | -5.325     | 0.925      | 8.738      | 16.55      | 31.25       | 46.875      | 156.25      | 312.5        | 625          |
| 2       | -9.075     | -3.45      | 4.05       | 13.425     | 22.8       | 37.5        | 56.25       | 187.5       | 375          | 750          |
| 2.25    | -8.138     | -1.575     | 7.175      | 18.113     | 29.05      | 43.75       | 65.625      | 218.75      | 437.5        | 875          |
| 2.5     | -7.2       | 0.3        | 10.3       | 22.8       | 35.3       | 50          | 75          | 250         | 500          | 1000         |
| 2.75    | -6.263     | 2.175      | 13.425     | 27.488     | 41.55      | 56.25       | 84.375      | 281.25      | 562.5        | 1125         |
| 3       | -5.325     | 4.05       | 16.55      | 32.175     | 47.8       | 62.5        | 93.75       | 312.5       | 625          | 1250         |
| 3.25    | -4.388     | 5.925      | 19.675     | 36.863     | 54.05      | 68.75       | 103.125     | 343.75      | 687.5        | 1375         |
| 3.5     | -3.45      | 7.8        | 22.8       | 41.55      | 60.3       | 75          | 112.5       | 375         | 750          | 1500         |
| 3.75    | -2.513     | 9.675      | 25.925     | 46.238     | 66.55      | 81.25       | 121.875     | 406.25      | 812.5        | 1625         |
| 4       | -1.575     | 11.55      | 29.05      | 50.925     | 72.8       | 87.5        | 131.25      | 437.5       | 875          | 1750         |
| 4.25    | -0.637     | 13.425     | 32.175     | 55.613     | 79.05      | 93.75       | 140.625     | 468.75      | 937.5        | 1875         |
| 4.5     | 0.3        | 15.3       | 35.3       | 60.3       | 85.3       | 100         | 150         | 500         | 1000         | 2000         |

### ADVANCED ENGINE MANAGEMENT INC.

This product is legal in California for racing vehicles only and should never be used on public highways.  
 Advanced Engine Management, 2205 126<sup>th</sup> Street Unit A Hawthorne, CA. 90250, Phone: (310) 484-2322 Fax: (310) 484-0152  
 Instruction Part Number: 10-2130, © 2008 Advanced Engine Management, Inc.

## **AEM Electronics Warranty**

Advanced Engine Management Inc. warrants to the consumer that all AEM Electronics products will be free from defects in material and workmanship for a period of twelve months from date of the original purchase. Products that fail within this 12-month warranty period will be repaired or replaced when determined by AEM that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12-month warranty period. Improper use or installation, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Merchandise Authorization (RMA) number. Product must be received by AEM within 30 days of the date the RMA is issued.

Please note that before AEM can issue an RMA for any electronic product, it is first necessary for the installer or end user to contact the tech line at 1-800-423-0046 to discuss the problem. Most issues can be resolved over the phone. Under no circumstances should a system be returned or a RMA requested before the above process transpires.

AEM will not be responsible for electronic products that are installed incorrectly, installed in a non approved application, misused, or tampered with.

Any AEM electronics product can be returned for repair if it is out of the warranty period. There is a minimum charge of \$50.00 for inspection and diagnosis of AEM electronic parts. Parts used in the repair of AEM electronic components will be extra. AEM will provide an estimate of repairs and receive written or electronic authorization before repairs are made to the product.