

AEMnet

29 bit, 500 kBit/sec, 8 data bytes per message unless otherwise specified

Multi-byte data is packed big endian (Motorola format, most significant byte transmitted first)

Bits numbered MSB first, with the MSB = bit7, LSB = bit0

Both unit types (SI & US) should be made available to the customer whenever possible!

Message ID: 0x01FOA000

Sources: Infinity EMS (30-71XX)
AEM S2 & EMS-4 (30-6XXX)
20ms continuous (50hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|---|------------------------|
| 0-1 | | | Engine Speed | 16 bit unsigned |
| 2-3 | | | Engine Load (Deprecated in Infinity) Use "MAP" in 0x01FOA004 instead | 16 bit unsigned |
| 4-5 | | | Throttle | 16 bit unsigned |
| 6 | | | Intake Air Temp | 8 bit signed, 2's comp |
| 7 | | | Coolant Temp | 8 bit signed, 2's comp |

| Scaling | | Offset | Range | DBC Unit Type |
|-----------------|---|---------------|--------------------|-------------------|
| 0.39063 rpm/bit | 0 | 0 | 0 to 25,599.94 RPM | angular_speed:rpm |
| 0.0015259 %/bit | 0 | 0 | 0 to 99.998 % | fraction:% |
| 0.0015259 %/bit | 0 | 0 | 0 to 99.998 % | fraction:% |
| 1 Deg C/bit | 0 | -128 to 127 C | temperature:C | temperature:C |
| 1 Deg C/bit | 0 | -128 to 127 C | temperature:C | temperature:C |

| Scaling | | Offset | Range | DBC Unit Type |
|---------------|-----|-------------------|---------------|---------------|
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| 1.8 Deg F/bit | 32 | -198.4 to 260.6 F | temperature:F | temperature:F |
| 1.8 Deg F/bit | 32 | -198.4 to 260.6 F | temperature:F | temperature:F |

Message ID: 0x01FOA001

Sources: AEM S2 & EMS-4 (30-6XXX)
20ms continuous (50hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|--------|-----------------|
| 0-1 | | | ADCR11 | 16 bit unsigned |
| 2-3 | | | ADCR13 | 16 bit unsigned |
| 4-5 | | | ADCR14 | 16 bit unsigned |
| 6-7 | | | ADCR17 | 16 bit unsigned |

| Scaling | | Offset | Range | DBC Unit Type |
|------------------|---|--------|---------------|---------------|
| 0.00007782 V/bit | 0 | 0 | 0 to 5.0999 V | voltage:V |
| 0.00007782 V/bit | 0 | 0 | 0 to 5.0999 V | voltage:V |
| 0.00007782 V/bit | 0 | 0 | 0 to 5.0999 V | voltage:V |
| 0.00007782 V/bit | 0 | 0 | 0 to 5.0999 V | voltage:V |

| Scaling | | Offset | Range | DBC Unit Type |
|---------|-----|--------|-------|---------------|
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |

Message ID: 0x01FOA002

Sources: AEM S2 & EMS-4 (30-6XXX)
20ms continuous (50hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|--------|-----------------|
| 0-1 | | | ADCR18 | 16 bit unsigned |
| 2-3 | | | ADCR15 | 16 bit unsigned |
| 4-5 | | | ADCR16 | 16 bit unsigned |
| 6-7 | | | ADCR08 | 16 bit unsigned |

| Scaling | | Offset | Range | DBC Unit Type |
|------------------|---|--------|----------------|---------------|
| 0.00007782 V/bit | 0 | 0 | 0 to 5.0999 V | voltage:V |
| 0.00007782 V/bit | 0 | 0 | 0 to 5.0999 V | voltage:V |
| 0.00007782 V/bit | 0 | 0 | 0 to 5.0999 V | voltage:V |
| 0.000326 V/bit | 0 | 0 | 0 to 21.3644 V | voltage:V |

| Scaling | | Offset | Range | DBC Unit Type |
|---------|-----|--------|-------|---------------|
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |

Message ID: 0x01FOA003

Sources: Infinity EMS (30-71XX)
AEM S2 & EMS-4 (30-6XXX)
20ms continuous (50hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|-----------------|-----------------|
| 0 | | | Lambda #1 | 8 bit unsigned |
| 1 | | | Lambda #2 | 8 bit unsigned |
| 2-3 | | | Vehicle Speed | 16 bit unsigned |
| 4 | | | Gear Calculated | 8 bit unsigned |
| 5 | | | Ign Timing | 8 bit unsigned |
| 6-7 | | | Battery Volts | 16 bit unsigned |

| Scaling | | Offset | Range | DBC Unit Type |
|-----------------------|-----|--------|---------------------|---------------|
| 0.00390625 Lambda/bit | 0.5 | 0.5 | 0.5 to 1.496 Lambda | afr:LA |
| 0.00390625 Lambda/bit | 0.5 | 0.5 | 0.5 to 1.496 Lambda | afr:LA |
| 0.0062865 kph/bit | 0 | 0 | 0 to 411.986 km/h | speed:km/h |
| 1 | 0 | 0 | 0 to 255 | unitless: |
| 35156 Deg/bit | -17 | -17 | -17 to 32.65 Deg | angle:deg |
| 0.0002455 V/bit | 0 | 0 | 0 to 16.089 Volts | voltage:V |

| Scaling | | Offset | Range | DBC Unit Type |
|--------------------|-------|--------|---------------------|------------------|
| 0.057222 AFR/bit | 7.325 | 7.325 | 7.325 to 21.916 AFR | afr:AFR Gasoline |
| 0.057222 AFR/bit | 7.325 | 7.325 | 7.325 to 21.916 AFR | afr:AFR Gasoline |
| 0.00390625 mph/bit | 0 | 0 | 0 to 255.996 MPH | speed:mph |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |

Message ID: 0x01FOA004

Sources: Infinity EMS (30-71XX) V96.1+
20ms continuous (50hz)

| Byte | Bit | Bitmask | Label | Data Type |
|---------|---------|---------|-------------------|-----------------|
| 0-1 | | | MAP | 16 bit unsigned |
| 2 | | | VE | 8 bit unsigned |
| 3 | | | FuelPressure | 8 bit unsigned |
| 4 | | | OilPressure | 8 bit unsigned |
| 5 | | | LambdaTarget | 8 bit unsigned |
| 6 | 0 (hdb) | 0 | FuelPump | Boolean |
| 1 | 2 | 4 | Fan 1 | Boolean |
| 2 | 4 | 8 | Fan 2 | Boolean |
| 3 | 8 | 16 | N2O Active | Boolean |
| 4 | 16 | 32 | O2FB Active | Boolean |
| 5 | 32 | 64 | EngineProtectOut | Boolean |
| 6 | 64 | 128 | MILOutput | Boolean |
| 7 (msb) | 128 | 256 | Lean Protect | Boolean |
| 0 (hdb) | 0 | 1 | Oil Press Protect | Boolean |
| 1 | 2 | 2 | 2 Step Fuel | Boolean |
| 2 | 4 | 4 | 2 Step Spark | Boolean |
| 3 | 8 | 8 | Sync State | Boolean |
| 4 | 16 | 16 | A/C On | Boolean |
| 5 | 32 | 32 | BoostCut | Boolean |
| 6 | 64 | 64 | CoolantProtect | Boolean |
| 7 (msb) | 128 | 128 | DBZ Error | Boolean |

| Scaling | | Offset | Range | DBC Unit Type |
|-----------------------|-----|--------|---------------------|-----------------------|
| 0.1 kPa/bit | 0 | 0 | 0 to 6,553.5 kPa | pressure:kPa |
| 1 %/bit | 0 | 0 | 0 to 255 % | fraction:% |
| 0.040 bar/bit | 0 | 0 | 0 to 10.2 Bar | pressure_gauge:bar(g) |
| 0.040 bar/bit | 0 | 0 | 0 to 10.2 Bar | pressure_gauge:bar(g) |
| 0.00390625 Lambda/bit | 0.5 | 0.5 | 0.5 to 1.496 Lambda | afr:LA |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |

| Scaling | | Offset | Range | DBC Unit Type |
|-------------------|----------|---------|------------------------|------------------------|
| 0.014504 PSI/bit | -14.6960 | -14.696 | -14.696 to 935.81 PSIg | pressure_gauge:psig(g) |
| <== | <== | <== | <== | <== |
| 0.580151 PSIg/bit | 0 | 0 | 0 to 147.939 PSIg | pressure_gauge:psig(g) |
| 0.580151 PSIg/bit | 0 | 0 | 0 to 147.939 PSIg | pressure_gauge:psig(g) |
| 0.057222 AFR/bit | 7.325 | 7.325 | 7.325 to 21.916 AFR | afr:AFR Gasoline |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |

Message ID: 0x01FOA005

Sources: Infinity EMS (30-71XX) V96.1+
20ms continuous (50hz)

| Byte | Bit | Bitmask | Label | Data Type |
|---------|---------|---------|-----------------------|-----------------|
| 0-1 | | | LaunchRampTime [ms] | 16 bit unsigned |
| 2-3 | | | MassAirflow [gms/s] | 16 bit unsigned |
| 4-5 | | | MassAirflow [gms/rev] | 16 bit unsigned |
| 6 | | | Clutch Pressure | 8 bit unsigned |
| 7 | 0 (hdb) | 0 | Brake Sw | Boolean |
| 1 | 2 | 2 | Clutch Sw | Boolean |
| 2 | 4 | 4 | Shift Sw | Boolean |
| 3 | 8 | 8 | Staged Sw | Boolean |
| 4 | 16 | 16 | ---- | Boolean |
| 5 | 32 | 32 | ---- | Boolean |
| 6 | 64 | 64 | ---- | Boolean |
| 7 (msb) | 128 | 128 | ---- | Boolean |

| Scaling | | Offset | Range | DBC Unit Type |
|-----------------------|------|--------|----------------------|-----------------------|
| 10 mS/bit | 0 | 0 | 0 to 655,350 mS | time:ms |
| .05 [gms/s] / bit | 0 | 0 | 0 to 3,276.75 gms/s | mass_flow:g/s |
| .0005 [gms/rev] / bit | 0 | 0 | 0 to 32.7675 gms/rev | unitless: |
| 0.344738 Bar/bit | 0 | 0 | 0 to 87.91 Bar | pressure_gauge:bar(g) |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0 | 0/1 | unitless: |
| ---- | ---- | ---- | ---- | ---- |
| ---- | ---- | ---- | ---- | ---- |
| ---- | ---- | ---- | ---- | ---- |
| ---- | ---- | ---- | ---- | ---- |
| ---- | ---- | ---- | ---- | ---- |
| ---- | ---- | ---- | ---- | ---- |
| ---- | ---- | ---- | ---- | ---- |

| Scaling | | Offset | Range | DBC Unit Type |
|--------------------------|-----|--------|---------------------|------------------------|
| <== | <== | <== | <== | <== |
| .00661387 [lb/min]/bit | 0 | 0 | 0 to 433.440 lb/min | mass_flow:lb/min |
| .0000661387 [lb/rev]/bit | 0 | 0 | 0 to 4.3344 lb/rev | unitless: |
| 5 PSIg/bit | 0 | 0 | 0 to 1275 PSIg | pressure_gauge:psig(g) |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |

Message ID: 0x01FOA006

Sources: Infinity EMS (30-71XX) V96.1+
40ms continuous (25hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|--------------------|-----------------|
| 0 | | | InjPulse | 8 bit unsigned |
| 1 | | | Inj[Lambda]B | 8 bit unsigned |
| 2 | | | PrimaryInjDuty [%] | 8 bit unsigned |
| 3 | | | Mold Sw | 8 bit unsigned |
| 4 | | | Water Pressure | 8 bit unsigned |
| 5 | | | Pan Pressure | 8 bit unsigned |
| 6-7 | | | Est Torque | 16 bit unsigned |

| Scaling | | Offset | Range | DBC Unit Type |
|----------------|---------|---------|----------------------|-----------------------|
| 0.1 mS/bit | 0 | 0 | 0 to 25.5 mS | time:ms |
| 0.5 %/bit | -64.00 | -64 | -64 to 63.5 % | fraction:% |
| 0.392157 %/bit | 0 | 0 | 0 to 100 % | fraction:% |
| 1 | 0 | 0 | 0 to 255 | unitless: |
| 0.040 bar/bit | 0 | 0 | 0 to 10.2 Bar | pressure_gauge:bar(g) |
| 1 kPa/bit | 0 | 0 | 0 to 255 kPa | pressure:kPa |
| 0.1 Nm/bit | -3276.8 | -3276.8 | -3276.8 to 3276.7 Nm | torque:N.m |

| Scaling | | Offset | Range | DBC Unit Type |
|----------------------|------------|---------|------------------------|------------------------|
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |
| 0.580151 PSIg/bit | 0 | 0 | 0 to 147.939 PSIg | pressure_gauge:psig(g) |
| 0.14504 PSI/bit | -14.696 | -14.696 | -14.696 to 22.289 PSIg | pressure_gauge:psig(g) |
| 0.0737562 ft-lbs/bit | -2416.8432 | +/- | -2416.77 ft-lbs | torque:ft.lb |

Message ID: 0x01FOA007

Sources: Infinity EMS (30-71XX) V96.1+
40ms continuous (25hz)

| Scaling | | Offset | Range | DBC Unit Type |
|---------|-----|--------|-------|---------------|
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |

| Scaling | | Offset | Range | DBC Unit Type |
|---------|-----|--------|-------|---------------|
| <== | <== | <== | <== | <== |
| <== | <== | <== | <== | <== |

| Byte | Bit | Bitmask | Label | Data Type |
|------|---------|---------|-------------------------|----------------|
| 0 | | | injectorProbability [%] | 8 bit unsigned |
| 1 | | | SparkProbability [%] | 8 bit unsigned |
| 2 | | | LambdaTrim_Knock | 8 bit unsigned |
| 3 | | | Baro Press | 8 bit unsigned |
| 4 | | | FlexContent | 8 bit unsigned |
| 5 | | | Airbox Temp | 8 bit unsigned |
| 6 | | | Cat Temp | 8 bit unsigned |
| 7 | 0 (lsb) | 0 | LaunchTimerArmed | Boolean |
| | 1 | 2 | ECU Logging Active | Boolean |
| | 2 | 4 | ModeSelect_Ign | 2 bit unsigned |
| | 3 | 8 | ModeSelect_Lambda | 2 bit unsigned |
| | 4 | 16 | | |
| | 5 | 32 | | |
| | 6 | 64 | ModeSelect_DBW | 1 bit unsigned |
| | 7 (msb) | 128 | VTEC | Boolean |

Message ID: 0x01FOA008

Sources: Infinity EMS (30-71XX) V96.1+
200ms continuous (5Hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|---------|---------|-------------------------|-----------------|
| 0 | | | Trans Temp | 8 bit unsigned |
| 1-2 | | | SparkCut (RPM) | 16 bit unsigned |
| 3-4 | | | FuelCut (RPM) | 16 bit unsigned |
| 5 | | | 25stepTargetFuel (RPM) | 8 bit unsigned |
| 6 | | | 25stepTargetSpark (RPM) | 8 bit unsigned |
| 7 | 0 (lsb) | 0 | ErrorThrottle | Boolean |
| | 1 | 2 | ErrorCoolantTemp | Boolean |
| | 2 | 4 | ErrorFuelPressure | Boolean |
| | 3 | 8 | ErrorOilPressure | Boolean |
| | 4 | 16 | ErrorEBP | Boolean |
| | 5 | 32 | ErrorMAP | Boolean |
| | 6 | 64 | ErrorAirTemp | Boolean |
| | 7 (msb) | 128 | ErrorBaro | Boolean |

Message ID: 0x01FOA009

Sources: Infinity EMS (30-71XX) V96.1+
40ms continuous (25Hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|---------------------|-----------------|
| 0-1 | | | Brake Pressure | 16 bit unsigned |
| 2-3 | | | Steering Angle | 16 bit unsigned |
| 4-5 | | | Launch Boost Target | 16 bit unsigned |
| 6 | | | ---- | ---- |
| 7 | | | ---- | ---- |

Message ID: 0x01FOA00A

Sources: Infinity EMS (30-71XX) V96.1+ w/VVTi
40ms continuous (25Hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|-------------------|----------------|
| 0 | | | VVC1A_Cam_Timing | 8 bit unsigned |
| 1 | | | VVC2A_Cam_Timing | 8 bit unsigned |
| 2 | | | VVC1B_Cam_Timing | 8 bit unsigned |
| 3 | | | VVC2B_Cam_Timing | 8 bit unsigned |
| 4 | | | VVC1 Target (deg) | 8 bit unsigned |
| 5 | | | VVC2 Target (deg) | 8 bit unsigned |
| 6 | | | ---- | ---- |
| 7 | | | ---- | ---- |

Message ID: 0x01FOA00B

Sources: Infinity EMS (30-71XX) V96.1+ w/Boost
40ms continuous (25Hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|------------------|-----------------|
| 0-1 | | | BoostTarget | 16 bit unsigned |
| 2-3 | | | ChargeOutPress | 16 bit unsigned |
| 4 | | | BoostControl [%] | 8 bit unsigned |
| 5 | | | BoostFB_PID [%] | 8 bit unsigned |
| 6 | | | ChargeOutTemp | 8 bit unsigned |
| 7 | | | TurboSpeed (RPM) | 8 bit unsigned |

Message ID: 0x01FOA00D

Sources: Infinity EMS (30-71XX) V96.1+ w/DBW
40ms continuous (25Hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|---------|---------|-----------------------|----------------|
| 0 | | | DBW_APP1 | 8 bit unsigned |
| 1 | | | DBW_Target | 8 bit unsigned |
| 2 | | | DBW1_TPSA | 8 bit unsigned |
| 3 | | | DBW2_TPSA | 8 bit unsigned |
| 4 | | | ---- | ---- |
| 5 | 0 (lsb) | 0 | DBW_Error_APP_Corr | Boolean |
| | 1 | 2 | DBW_Error_APP1_Range | Boolean |
| | 2 | 4 | DBW_Error_APP2_Range | Boolean |
| | 3 | 8 | DBW_Error_BTO | Boolean |
| | 4 | 16 | ---- | ---- |
| | 5 | 32 | ---- | ---- |
| | 6 | 64 | ---- | ---- |
| | 7 (msb) | 128 | ---- | ---- |
| 6 | 0 (lsb) | 0 | DBW1_Error_Fatal | Boolean |
| | 1 | 2 | DBW1_Error_TPSA_Range | Boolean |
| | 2 | 4 | DBW1_Error_TPSB_Range | Boolean |
| | 3 | 8 | DBW1_Error_Tracking | Boolean |
| | 4 | 16 | DBW1_Error_Current | Boolean |
| | 5 | 32 | DBW1_Error_TPS_Corr | Boolean |
| | 6 | 64 | ---- | ---- |
| | 7 (msb) | 128 | ---- | ---- |
| 7 | 0 (lsb) | 0 | DBW2_Error_Fatal | Boolean |
| | 1 | 2 | DBW2_Error_TPSA_Range | Boolean |
| | 2 | 4 | DBW2_Error_TPSB_Range | Boolean |
| | 3 | 8 | DBW2_Error_Tracking | Boolean |
| | 4 | 16 | DBW2_Error_Current | Boolean |
| | 5 | 32 | DBW2_Error_TPS_Corr | Boolean |
| | 6 | 64 | ---- | ---- |
| | 7 (msb) | 128 | ---- | ---- |

Message ID: 0x01FOA010

Sources: Infinity EMS (30-71XX) V96.1+ w/TC
20ms continuous (50Hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|---------|---------|-------------------------|----------------|
| 0 | | | TC_FuelCut [%] | 8 bit unsigned |
| 1 | | | TC_SparkCut [%] | 8 bit unsigned |
| 2 | | | TC_Retard (degBTDC) | 8 bit unsigned |
| 3 | | | TC_TqReducedDBW [%] | 8 bit unsigned |
| 4 | | | TC_Mode_Sw | 8 bit unsigned |
| 5 | | | 35stepTargetFuel (RPM) | 8 bit unsigned |
| 6 | | | 35stepTargetSpark (RPM) | 8 bit unsigned |
| 7 | 0 (lsb) | 0 | 3 Step Fuel | Boolean |
| | 1 | 2 | 3 Step Spark | Boolean |
| | 2 | 4 | 3 Step Sw | Boolean |
| | 3 | 8 | ---- | ---- |
| | 4 | 16 | ---- | ---- |
| | 5 | 32 | ---- | ---- |
| | 6 | 64 | ---- | ---- |
| | 7 (msb) | 128 | ---- | ---- |

Message ID: 0x01FOA011

Sources: Infinity EMS (30-71XX) V96.1+ w/TC
20ms continuous (50Hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|---------|---------|-------------------------|----------------|
| 0 | | | TC_FuelCut [%] | 8 bit unsigned |
| 1 | | | TC_SparkCut [%] | 8 bit unsigned |
| 2 | | | TC_Retard (degBTDC) | 8 bit unsigned |
| 3 | | | TC_TqReducedDBW [%] | 8 bit unsigned |
| 4 | | | TC_Mode_Sw | 8 bit unsigned |
| 5 | | | 35stepTargetFuel (RPM) | 8 bit unsigned |
| 6 | | | 35stepTargetSpark (RPM) | 8 bit unsigned |
| 7 | 0 (lsb) | 0 | 3 Step Fuel | Boolean |
| | 1 | 2 | 3 Step Spark | Boolean |
| | 2 | 4 | 3 Step Sw | Boolean |
| | 3 | 8 | ---- | ---- |
| | 4 | 16 | ---- | ---- |
| | 5 | 32 | ---- | ---- |
| | 6 | 64 | ---- | ---- |
| | 7 (msb) | 128 | ---- | ---- |

| Scaling | Offset | Range | DBC Unit Type |
|------------------------------------|--------|-------------------|---------------|
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 0.001 Lambda/bit | 0 | 0 to 0.255 Lambda | af:Lambda |
| 0.25 kPa/bit | 50 | 50 to 113.75 kPa | pressure:kPa |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 1 Deg C/bit | -50.00 | -50 to 205 C | temperature:C |
| 1 Deg C/bit | -50.00 | -50 to 205 C | temperature:C |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| ##### = Mode 1, ###01## = Mode 2 | | | unitless: - |
| ##### = Mode 3, #####1## = Mode 4 | | | unitless: - |
| ##### = Mode 1, ##01##### = Mode 2 | | | unitless: - |
| ##### = Mode 3, ##11##### = Mode 4 | | | unitless: - |
| ##### = Mode 1, #11##### = Mode 2 | | | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |

| Scaling | Offset | Range | DBC Unit Type |
|-------------------|--------|-----------------------|-----------------|
| <== | <== | <== | <== |
| 0.01465 AFR/bit | 0 | 0 to 3.73575 AFR | af:AFR Gasoline |
| 0.073825 inHg/bit | 14.76 | 14.76 to 31.5903 inHg | pressure:inHg |
| <== | <== | <== | <== |
| 1.8 Deg F/bit | -58 | -58 to 401 F | temperature:F |
| 1.8 Deg F/bit | -58 | -58 to 401 F | temperature:F |
| <== | <== | <== | <== |
| <== | <== | <== | <== |
| <== | <== | <== | <== |
| <== | <== | <== | <== |

| Contained in CAN DBC Files* | | AEM INFINITY SI 20161021.dbc | |
|-----------------------------|--------|-------------------------------|-------------------|
| Scaling | Offset | SI Units (C / kph / Lambda) | DBC Unit Type |
| 1 Deg C/bit | -50.00 | -50 to 205 C | temperature:C |
| 0.39063 rpm/bit | 0 | 0 to 25,599.94 RPM | angular_speed:rpm |
| 0.39063 rpm/bit | 0 | 0 to 25,599.94 RPM | angular_speed:rpm |
| 100 rpm/bit | 0 | 0 to 25,500 RPM | angular_speed:rpm |
| 100 rpm/bit | 0 | 0 to 25,500 RPM | angular_speed:rpm |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |

| Contained in CAN DBC Files* | | AEM Infinity US 20161025.dbc | |
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| | | US units (F / PSI / MPH / A/R) | |
| Scaling | Offset | Range | DBC Unit Type |
| 1.8 Deg F/bit | -58 | -58 to 401 F | temperature:F |
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| Contained in CAN DBC Files* | | AEM INFINITY SI 20161021.dbc | |
|-----------------------------|---------|-------------------------------------|-----------------------|
| Scaling | Offset | SI Units (C / kPa / kph / Lambda) | DBC Unit Type |
| 0.006895 Bar/bit | 0 | 0 to 451.85 Bar | pressure_gauge:bar(g) |
| 0.1 degree/bit | -3276.8 | -3276.8 to 3276.7 deg | angle:deg |
| 0.1 kPa/bit | 0 | 0 to 6,553.5 kPa | pressure:kPa |
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| Contained in CAN DBC Files* | | AEM Infinity US 20161025.dbc | |
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| | | US units (F / PSI / MPH / A/R) | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.1 PSig/bit | 0 | 0 to 655.3 PSig | pressure_gauge:psi(g) |
| <== | <== | <== | <== |
| 0.014504 PSi/bit | -14.6960 | -14.696 to 935.81 PSig | pressure_gauge:psi(g) |
| <== | <== | <== | <== |
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| Contained in CAN DBC Files* | | AEM INFINITY SI 20161021.dbc | |
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| | | SI Units (C / kPa / kph / Lambda) | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.5 deg/bit | -50 | -50 to 77.5 deg | angle:deg |
| 0.5 deg/bit | -50 | -50 to 77.5 deg | angle:deg |
| 0.5 deg/bit | -50 | -50 to 77.5 deg | angle:deg |
| 0.5 deg/bit | -50 | -50 to 77.5 deg | angle:deg |
| 0.5 deg/bit | -50 | -50 to 77.5 deg | angle:deg |
| 0.5 deg/bit | -50 | -50 to 77.5 deg | angle:deg |
| 0.5 deg/bit | -50 | -50 to 77.5 deg | angle:deg |
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| Contained in CAN DBC Files* | | AEM Infinity US 20161025.dbc | |
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| US Units (F / PS / MPH / AFR) | | | |
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| Contained in CAN DBC Files* | | AEM INFINITY SI 20161021.dbc | |
|-----------------------------|--------|-------------------------------------|-------------------|
| Scaling | Offset | SI Units (C / Kpa / kph / Lambda) | DBC Unit Type |
| 0.1 kPa/bit | 0 | 0 to 6,553.5 kPa | pressure:kPa |
| 0.1 kPa/bit | 0 | 0 to 6,553.5 kPa | pressure:kPa |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 1 Deg C/bit | -50.00 | -50 to 205 C | temperature:C |
| 500 rpm/bit | 0 | 0 to 127,500 RPM | angular_speed:rpm |

| Contained in CAN DBC Files* | | AEM Infinity US 20161025.dbc | |
|----------------------------------|----------|------------------------------|-----------------------|
| US Units (F / PSI / MPH / A/R) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.014504 PSi/bit | -14.6960 | -14.696 to 935.81 PSi | pressure_gauge:psi(g) |
| 0.014504 PSi/bit | -14.6960 | -14.696 to 935.81 PSi | pressure_gauge:psi(g) |
| <== | <== | <== | <== |
| <== | <== | <== | <== |
| 1.8 Deg F/bit | -58 | -58 to 401 F | temperature:F |
| <== | <== | <== | <== |

| Contained in CAN DBC Files* | | AEM INFINITY SI 20161021.dbc | |
|-----------------------------|--------|-------------------------------------|---------------|
| | | SI Units (C / KPa / kph / Lambda) | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
| 0.392157 %/bit | 0 | 0 to 100 % | fraction: % |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
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| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| ---- | ---- | ---- | ---- |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
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| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| ---- | ---- | ---- | ---- |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | unitless: - |
| 0 = false, 1 = true | 0 | 0/1 | |

| | | | |
|-----------------|----------|------------------|------------------|
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | afr:AFR Gasoline |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 |

| Contained in CAN DBC Files* | | AEM 30-2340 4ch UEGO US 20161213.dbc AEM 30-2340 4ch UEGO US 20161213.dbc | |
|----------------------------------|--------|--|-----------------|
| US Units (F / Psi / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | af-AFR Gasoline |
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | af-AFR Gasoline |
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | af-AFR Gasoline |

[illegible]

| Contained in CAN DSC Files* | | TBD | |
|----------------------------------|--------|-----------------|------------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DSC Unit Type |
| .001465 AFR/bit | 0 | 0 to 0.0088 AFR | afr-AFR Gasoline |
| .001465 AFR/bit | 0 | 0 to 0.0088 AFR | afr-AFR Gasoline |
| €10 | €10 | €10 | €10 |
| €10 | €10 | €10 | €10 |

| Contained in CAN DBC Files* | | TBD US Units (ft / PSI / MPH / AFR) | |
|-----------------------------|--------|--|----------------------|
| Scaling | Offset | Range | DBC Unit Type |
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | afrrAFR Gasoline |
| .001 PSI/bit | -15 | -15 to 50.535 PSIg | pressure_gauge(psig) |
| <0.0 | <0.0 | <0.0 | <0.0 |
| <0.0 | <0.0 | <0.0 | <0.0 |

[illegible]

| | | | |
|------------------------------|--------|---------------------------------------|---------------|
| Contained in CAN DBC Files*: | | AEM 30-2340 4Ch UEGO US 20161213.dbc | |
| | | AEM 30-2340N 4Ch UEGO US 20161213.dbc | |
| | | US Units (F / PSI / MPH / AFR) | |
| Scaling | Offset | Range | DBC Unit Type |
| <== | <== | <== | <== |

Message ID: 0x000001B1
Sources: AEM 4 Ch UEGO (30-2340) MODE 3
30-2340N same w/11 bit & 1mBit/sec

Contained in CAN DBC Files*: **AEM 30-2340N 4Ch UEGO SI 20161213.dbc**

Contained in CAN DBC Files*: **AEM 30-2340N 4Ch UEGO US 20161213.dbc**

Message ID: 0x000001B2
Sources: AEM 4 Ch UEGO (30-2340) MODE 4
30-2340N same w/11 bit & 1mBit/sec
40ms continuous (25hz)

Contained in CAN DBC Files*: **AEM 30-2340N 4Ch UEGO SI 20161213.dbc**

Contained in CAN DBC Files*: **AEM 30-2340N 4Ch UEGO US 20161213.dbc**

[illegible]

[illegible][illegible][illegible][illegible]

| | | | |
|--------|--------|--------|--------|
| C10 | C20 | C30 | C40 |
| C50 | C60 | C70 | C80 |
| C90 | C100 | C110 | C120 |
| C130 | C140 | C150 | C160 |
| C170 | C180 | C190 | C200 |
| C210 | C220 | C230 | C240 |
| C250 | C260 | C270 | C280 |
| C290 | C300 | C310 | C320 |
| C330 | C340 | C350 | C360 |
| C370 | C380 | C390 | C400 |
| C410 | C420 | C430 | C440 |
| C450 | C460 | C470 | C480 |
| C490 | C500 | C510 | C520 |
| C530 | C540 | C550 | C560 |
| C570 | C580 | C590 | C600 |
| C610 | C620 | C630 | C640 |
| C650 | C660 | C670 | C680 |
| C690 | C700 | C710 | C720 |
| C730 | C740 | C750 | C760 |
| C770 | C780 | C790 | C800 |
| C810 | C820 | C830 | C840 |
| C850 | C860 | C870 | C880 |
| C890 | C900 | C910 | C920 |
| C930 | C940 | C950 | C960 |
| C970 | C980 | C990 | C1000 |
| C1010 | C1020 | C1030 | C1040 |
| C1050 | C1060 | C1070 | C1080 |
| C1090 | C1100 | C1110 | C1120 |
| C1130 | C1140 | C1150 | C1160 |
| C1170 | C1180 | C1190 | C1200 |
| C1210 | C1220 | C1230 | C1240 |
| C1250 | C1260 | C1270 | C1280 |
| C1290 | C1300 | C1310 | C1320 |
| C1330 | C1340 | C1350 | C1360 |
| C1370 | C1380 | C1390 | C1400 |
| C1410 | C1420 | C1430 | C1440 |
| C1450 | C1460 | C1470 | C1480 |
| C1490 | C1500 | C1510 | C1520 |
| C1530 | C1540 | C1550 | C1560 |
| C1570 | C1580 | C1590 | C1600 |
| C1610 | C1620 | C1630 | C1640 |
| C1650 | C1660 | C1670 | C1680 |
| C1690 | C1700 | C1710 | C1720 |
| C1730 | C1740 | C1750 | C1760 |
| C1770 | C1780 | C1790 | C1800 |
| C1810 | C1820 | C1830 | C1840 |
| C1850 | C1860 | C1870 | C1880 |
| C1890 | C1900 | C1910 | C1920 |
| C1930 | C1940 | C1950 | C1960 |
| C1970 | C1980 | C1990 | C2000 |
| C2010 | C2020 | C2030 | C2040 |
| C2050 | C2060 | C2070 | C2080 |
| C2090 | C2100 | C2110 | C2120 |
| C2130 | C2140 | C2150 | C2160 |
| C2170 | C2180 | C2190 | C2200 |
| C2210 | C2220 | C2230 | C2240 |
| C2250 | C2260 | C2270 | C2280 |
| C2290 | C2300 | C2310 | C2320 |
| C2330 | C2340 | C2350 | C2360 |
| C2370 | C2380 | C2390 | C2400 |
| C2410 | C2420 | C2430 | C2440 |
| C2450 | C2460 | C2470 | C2480 |
| C2490 | C2500 | C2510 | C2520 |
| C2530 | C2540 | C2550 | C2560 |
| C2570 | C2580 | C2590 | C2600 |
| C2610 | C2620 | C2630 | C2640 |
| C2650 | C2660 | C2670 | C2680 |
| C2690 | C2700 | C2710 | C2720 |
| C2730 | C2740 | C2750 | C2760 |
| C2770 | C2780 | C2790 | C2800 |
| C2810 | C2820 | C2830 | C2840 |
| C2850 | C2860 | C2870 | C2880 |
| C2890 | C2900 | C2910 | C2920 |
| C2930 | C2940 | C2950 | C2960 |
| C2970 | C2980 | C2990 | C3000 |
| C3010 | C3020 | C3030 | C3040 |
| C3050 | C3060 | C3070 | C3080 |
| C3090 | C3100 | C3110 | C3120 |
| C3130 | C3140 | C3150 | C3160 |
| C3170 | C3180 | C3190 | C3200 |
| C3210 | C3220 | C3230 | C3240 |
| C3250 | C3260 | C3270 | C3280 |
| C3290 | C3300 | C3310 | C3320 |
| C3330 | C3340 | C3350 | C3360 |
| C3370 | C3380 | C3390 | C3400 |
| C3410 | C3420 | C3430 | C3440 |
| C3450 | C3460 | C3470 | C3480 |
| C3490 | C3500 | C3510 | C3520 |
| C3530 | C3540 | C3550 | C3560 |
| C3570 | C3580 | C3590 | C3600 |
| C3610 | C3620 | C3630 | C3640 |
| C3650 | C3660 | C3670 | C3680 |
| C3690 | C3700 | C3710 | C3720 |
| C3730 | C3740 | C3750 | C3760 |
| C3770 | C3780 | C3790 | C3800 |
| C3810 | C3820 | C3830 | C3840 |
| C3850 | C3860 | C3870 | C3880 |
| C3890 | C3900 | C3910 | C3920 |
| C3930 | C3940 | C3950 | C3960 |
| C3970 | C3980 | C3990 | C4000 |
| C4010 | C4020 | C4030 | C4040 |
| C4050 | C4060 | C4070 | C4080 |
| C4090 | C4100 | C4110 | C4120 |
| C4130 | C4140 | C4150 | C4160 |
| C4170 | C4180 | C4190 | C4200 |
| C4210 | C4220 | C4230 | C4240 |
| C4250 | C4260 | C4270 | C4280 |
| C4290 | C4300 | C4310 | C4320 |
| C4330 | C4340 | C4350 | C4360 |
| C4370 | C4380 | C4390 | C4400 |
| C4410 | C4420 | C4430 | C4440 |
| C4450 | C4460 | C4470 | C4480 |
| C4490 | C4500 | C4510 | C4520 |
| C4530 | C4540 | C4550 | C4560 |
| C4570 | C4580 | C4590 | C4600 |
| C4610 | C4620 | C4630 | C4640 |
| C4650 | C4660 | C4670 | C4680 |
| C4690 | C4700 | C4710 | C4720 |
| C4730 | C4740 | C4750 | C4760 |
| C4770 | C4780 | C4790 | C4800 |
| C4810 | C4820 | C4830 | C4840 |
| C4850 | C4860 | C4870 | C4880 |
| C4890 | C4900 | C4910 | C4920 |
| C4930 | C4940 | C4950 | C4960 |
| C4970 | C4980 | C4990 | C5000 |
| C5010 | C5020 | C5030 | C5040 |
| C5050 | C5060 | C5070 | C5080 |
| C5090 | C5100 | C5110 | C5120 |
| C5130 | C5140 | C5150 | C5160 |
| C5170 | C5180 | C5190 | C5200 |
| C5210 | C5220 | C5230 | C5240 |
| C5250 | C5260 | C5270 | C5280 |
| C5290 | C5300 | C5310 | C5320 |
| C5330 | C5340 | C5350 | C5360 |
| C5370 | C5380 | C5390 | C5400 |
| C5410 | C5420 | C5430 | C5440 |
| C5450 | C5460 | C5470 | C5480 |
| C5490 | C5500 | C5510 | C5520 |
| C5530 | C5540 | C5550 | C5560 |
| C5570 | C5580 | C5590 | C5600 |
| C5610 | C5620 | C5630 | C5640 |
| C5650 | C5660 | C5670 | C5680 |
| C5690 | C5700 | C5710 | C5720 |
| C5730 | C5740 | C5750 | C5760 |
| C5770 | C5780 | C5790 | C5800 |
| C5810 | C5820 | C5830 | C5840 |
| C5850 | C5860 | C5870 | C5880 |
| C5890 | C5900 | C5910 | C5920 |
| C5930 | C5940 | C5950 | C5960 |
| C5970 | C5980 | C5990 | C6000 |
| C6010 | C6020 | C6030 | C6040 |
| C6050 | C6060 | C6070 | C6080 |
| C6090 | C6100 | C6110 | C6120 |
| C6130 | C6140 | C6150 | C6160 |
| C6170 | C6180 | C6190 | C6200 |
| C6210 | C6220 | C6230 | C6240 |
| C6250 | C6260 | C6270 | C6280 |
| C6290 | C6300 | C6310 | C6320 |
| C6330 | C6340 | C6350 | C6360 |
| C6370 | C6380 | C6390 | C6400 |
| C6410 | C6420 | C6430 | C6440 |
| C6450 | C6460 | C6470 | C6480 |
| C6490 | C6500 | C6510 | C6520 |
| C6530 | C6540 | C6550 | C6560 |
| C6570 | C6580 | C6590 | C6600 |
| C6610 | C6620 | C6630 | C6640 |
| C6650 | C6660 | C6670 | C6680 |
| C6690 | C6700 | C6710 | C6720 |
| C6730 | C6740 | C6750 | C6760 |
| C6770 | C6780 | C6790 | C6800 |
| C6810 | C6820 | C6830 | C6840 |
| C6850 | C6860 | C6870 | C6880 |
| C6890 | C6900 | C6910 | C6920 |
| C6930 | C6940 | C6950 | C6960 |
| C6970 | C6980 | C6990 | C7000 |
| C7010 | C7020 | C7030 | C7040 |
| C7050 | C7060 | C7070 | C7080 |
| C7090 | C7100 | C7110 | C7120 |
| C7130 | C7140 | C7150 | C7160 |
| C7170 | C7180 | C7190 | C7200 |
| C7210 | C7220 | C7230 | C7240 |
| C7250 | C7260 | C7270 | C7280 |
| C7290 | C7300 | C7310 | C7320 |
| C7330 | C7340 | C7350 | C7360 |
| C7370 | C7380 | C7390 | C7400 |
| C7410 | C7420 | C7430 | C7440 |
| C7450 | C7460 | C7470 | C7480 |
| C7490 | C7500 | C7510 | C7520 |
| C7530 | C7540 | C7550 | C7560 |
| C7570 | C7580 | C7590 | C7600 |
| C7610 | C7620 | C7630 | C7640 |
| C7650 | C7660 | C7670 | C7680 |
| C7690 | C7700 | C7710 | C7720 |
| C7730 | C7740 | C7750 | C7760 |
| C7770 | C7780 | C7790 | C7800 |
| C7810 | C7820 | C7830 | C7840 |
| C7850 | C7860 | C7870 | C7880 |
| C7890 | C7900 | C7910 | C7920 |
| C7930 | C7940 | C7950 | C7960 |
| C7970 | C7980 | C7990 | C8000 |
| C8010 | C8020 | C8030 | C8040 |
| C8050 | C8060 | C8070 | C8080 |
| C8090 | C8100 | C8110 | C8120 |
| C8130 | C8140 | C8150 | C8160 |
| C8170 | C8180 | C8190 | C8200 |
| C8210 | C8220 | C8230 | C8240 |
| C8250 | C8260 | C8270 | C8280 |
| C8290 | C8300 | C8310 | C8320 |
| C8330 | C8340 | C8350 | C8360 |
| C8370 | C8380 | C8390 | C8400 |
| C8410 | C8420 | C8430 | C8440 |
| C8450 | C8460 | C8470 | C8480 |
| C8490 | C8500 | C8510 | C8520 |
| C8530 | C8540 | C8550 | C8560 |
| C8570 | C8580 | C8590 | C8600 |
| C8610 | C8620 | C8630 | C8640 |
| C8650 | C8660 | C8670 | C8680 |
| C8690 | C8700 | C8710 | C8720 |
| C8730 | C8740 | C8750 | C8760 |
| C8770 | C8780 | C8790 | C8800 |
| C8810 | C8820 | C8830 | C8840 |
| C8850 | C8860 | C8870 | C8880 |
| C8890 | C8900 | C8910 | C8920 |
| C8930 | C8940 | C8950 | C8960 |
| C8970 | C8980 | C8990 | C9000 |
| C9010 | C9020 | C9030 | C9040 |
| C9050 | C9060 | C9070 | C9080 |
| C9090 | C9100 | C9110 | C9120 |
| C9130 | C9140 | C9150 | C9160 |
| C9170 | C9180 | C9190 | C9200 |
| C9210 | C9220 | C9230 | C9240 |
| C9250 | C9260 | C9270 | C9280 |
| C9290 | C9300 | C9310 | C9320 |
| C9330 | C9340 | C9350 | C9360 |
| C9370 | C9380 | C9390 | C9400 |
| C9410 | C9420 | C9430 | C9440 |
| C9450 | C9460 | C9470 | C9480 |
| C9490 | C9500 | C9510 | C9520 |
| C9530 | C9540 | C9550 | C9560 |
| C9570 | C9580 | C9590 | C9600 |
| C9610 | C9620 | C9630 | C9640 |
| C9650 | C9660 | C9670 | C9680 |
| C9690 | C9700 | C9710 | C9720 |
| C9730 | C9740 | C9750 | C9760 |
| C9770 | C9780 | C9790 | C9800 |
| C9810 | C9820 | C9830 | C9840 |
| C9850 | C9860 | C9870 | C9880 |
| C9890 | C9900 | C9910 | C9920 |
| C9930 | C9940 | C9950 | C9960 |
| C9970 | C9980 | C9990 | C10000 |
| C10010 | C10020 | C10030 | C10040 |
| C10050 | C10060 | C10070 | C10080 |
| C10090 | C10100 | C10110 | C10120 |
| C10130 | C10140 | C10150 | C10160 |
| C10170 | C10180 | C10190 | C10200 |
| C10210 | C10220 | C10230 | C10240 |
| C10250 | C10260 | C10270 | C10280 |
| C10290 | C10300 | C10310 | C10320 |
| C10330 | C10340 | C10350 | C10360 |
| C10370 | C10380 | C10390 | C10400 |
| C10410 | C10420 | C10430 | C10440 |
| C10450 | C10460 | C10470 | C10480 |
| C10490 | C10500 | C10510 | C10520 |
| C10530 | C10540 | C10550 | C10560 |
| C10570 | C10580 | C10590 | C10600 |
| C10610 | C10620 | C10630 | C10640 |
| C10650 | C10660 | C10670 | C10680 |
| C10690 | C10700 | C10710 | C10720 |
| C10730 | C10740 | C10750 | C10760 |
| C10770 | C10780 | C10790 | C10800 |
| C10810 | C10820 | C10830 | C10840 |
| C10850 | C10860 | C10870 | C10880 |
| C10890 | C10900 | C10910 | C10920 |
| C10930 | C10940 | C10950 | C10960 |
| C10970 | C10980 | C10990 | C11000 |
| C11010 | C11020 | C11030 | C11040 |
| C11050 | C11060 | C11070 | C11080 |
| C11090 | C11100 | C11110 | C11120 |
| C11130 | C11140 | C11150 | C11160 |
| C11170 | C11180 | C11190 | C11200 |
| C11210 | C11220 | C11230 | C11240 |
| C11250 | C11260 | C11270 | C11280 |
| C11290 | C11300 | C11310 | C11320 |
| C11330 | C11340 | C11350 | C11360 |
| C11370 | C11380 | C11390 | C11400 |
| C11410 | C11420 | C11430 | C11440 |
| C11450 | C11460 | C11470 | C11480 |
| C11490 | C11500 | C11510 | C11520 |
| C11530 | C11540 | C11550 | C11560 |
| C11570 | C11580 | C11590 | C11600 |
| C11610 | C11620 | C11630 | C11640 |
| C11650 | C11660 | C11670 | C11680 |
| C11690 | C11700 | C11710 | C11720 |
| C11730 | C11740 | C11750 | C11760 |
| C11770 | C11780 | C11790 | C11800 |
| C11810 | C11820 | C11830 | C11840 |
| C11850 | C11860 | C11870 | C11880 |
| C11890 | C11900 | C11910 | C11920 |
| C11930 | C11940 | C11950 | C11960 |
| C11970 | C11980 | C11990 | C12000 |
| C12010 | C12020 | C12030 | C12040 |
| C12050 | C12060 | C12070 | C12080 |
| C12090 | C12100 | C12110 | C12120 |
| C12130 | C12140 | C12150 | C12160 |
| C12170 | C12180 | C12190 | C12200 |
| C12210 | C12220 | C12230 | C12240 |
| C12250 | C12260 | C1 | |

| Contained in CAN DBC Files ¹ : | | TBD | |
|---|--------|----------------------------------|---------------|
| Scaling | Offset | US Units (F / PSI / MPH / AFR) | DBC Unit Type |
| ↳ | ↳ | ↳ | ↳ |
| 1 ft-lb/bit | 0 | -32,767 to +32,767 ft-lb | torque/ft.lb |
| 1 HP/bit | 0 | -32,767 to +32,767 HP | power/HP |
| 0.00390625 ft-lb/bit | 0 | 0 to 0.99609375 ft-lb | torque/ft.lb |
| 0.00390625 HP/bit | 0 | 0 to 0.99609375 HP | power/HP |

| Contained in CAN DBC Files: | | TBD | |
|-----------------------------|--------|----------------------------------|---------------|
| | | US Units (# / PSI / MPH / AFR) | |
| Scaling | Offset | Range | DBC Unit Type |
| ◀== | ◀== | ◀== | ◀== |
| 0.00390625 f-lb/bit | 0 | -127.996 to +127.996 f-lb | torque:ft.lb |
| 0.00390625 HP/bit | 0 | -127.996 to +127.996 HP | power:hp |
| ===== | ===== | ===== | ===== |

[illegible][illegible]

| Contained in CAN DBC Files* | | AEM GPS GAUGE 30-0313-US.dbc | |
|----------------------------------|--------|------------------------------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.01 | 0.00 | 0.00 | 0.00 |
| 0.01 | 0.00 | 0.00 | 0.00 |

| Contained in CAN DBC Files*: | | AEM GPS GAUGE 30-0313-US.dbc | |
|------------------------------|--------|----------------------------------|---------------|
| | | US Units (F / PSI / MPH / AFR) | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.01 mph/bit | 0 | 0 to 655.35 MPH | speed:mph |
| 1 ft/bit | 0 | -32,768 to 32,767 Feet | distance:ft |
| €32 | €32 | €32 | €32 |
| €32 | €32 | €32 | €32 |
| €32 | €32 | €32 | €32 |

| | | | |
|--|-----|--|-----|
| | TBD | | TBD |
|--|-----|--|-----|

| 50ms continuous (20hz) | | | | |
|------------------------|-----|---------|----------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Pressure | 16 bit unsigned |

Message ID: 0x000A0302
Sources: AEM Temperature Gauge 300F (30-0302)

| 50ms continuous (20hz) | | | | |
|------------------------|-----|---------|-------------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Temperature | 16 bit unsigned |

Message ID: 0x000A0305
Sources: AEM EGT Gauge 1800F (30-0305)

| 50ms continuous (20hz) | | | | |
|------------------------|-----|---------|-------------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Temperature | 16 bit unsigned |

Message ID: 0x000A0306
Sources: AEM Boost Gauge 50psia (30-0306)

| 50ms continuous (20hz) | | | | |
|------------------------|-----|---------|----------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Pressure | 16 bit unsigned |

Message ID: 0x000A0307
Sources: AEM Pressure Gauge 150psig (30-0307)

| 50ms continuous (20hz) | | | | |
|------------------------|-----|---------|----------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Pressure | 16 bit unsigned |

Message ID: 0x000A0308
Sources: AEM Pressure Gauge 75psia (30-0308)

| 50ms continuous (20hz) | | | | |
|------------------------|-----|---------|----------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Pressure | 16 bit unsigned |

Message ID: 0x000A0309
Sources: AEM Pressure Gauge 15psig (30-0309)

| 50ms continuous (20hz) | | | | |
|------------------------|-----|---------|----------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Pressure | 16 bit unsigned |

Message ID: 0x000A0000
Sources: AEM Vehicle Dynamics Module (30-2203)

| 100ms continuous (10hz) | | | | |
|-------------------------|-----|---------|---------------|--------------|
| Byte | Bit | Bitmask | DBC Label | Data Type |
| 0-3 | | | GPS_Latitude | 32 bit float |
| | | | | |
| | | | | |
| 4-7 | | | GPS_Longitude | 32 bit float |
| | | | | |
| | | | | |

Message ID: 0x000A0001
Sources: AEM Vehicle Dynamics Module (30-2203)

| 100ms continuous (10hz) | | | | |
|-------------------------|-----|---------|---------------------|-----------------|
| Byte | Bit | Bitmask | DBC Label | Data Type |
| 0-1 | | | GPS_Speed | 16 bit unsigned |
| 2-3 | | | GPS_Altitude | 16 bit signed |
| 4-5 | | | GPS_Course | 16 bit unsigned |
| 6 | | | GPS_Satellite_Count | 8 bit unsigned |
| 7 | | | GPS_Valid | 8 bit unsigned |

Message ID: 0x000A0002
Sources: AEM Vehicle Dynamics Module (30-2203)

| 200ms continuous (5hz) | | | | |
|------------------------|-----|---------|-----------------|----------------|
| Byte | Bit | Bitmask | DBC Label | Data Type |
| 0 | | | GPS_Valid | 8 bit unsigned |
| 1 | | | GPS_Year | 8 bit unsigned |
| 2 | | | GPS_Month | 8 bit unsigned |
| 3 | | | GPS_Day | 8 bit unsigned |
| 4 | | | GPS_Debug_Flags | 8 bit unsigned |
| 5 | | | GPS_Hours | 8 bit unsigned |
| 6 | | | GPS_Minutes | 8 bit unsigned |
| 7 | | | GPS_Seconds | 8 bit unsigned |

Message ID: 0x000A0003
Sources: AEM Vehicle Dynamics Module (30-2203)

| 10ms continuous (100hz) | | | | |
|-------------------------|-----|---------|--------------|----------------|
| Byte | Bit | Bitmask | DBC Label | Data Type |
| 0-1 | | | X_Axis_Accel | 16 bit signed |
| 2-3 | | | Y_Axis_Accel | 16 bit signed |
| 4-5 | | | Z_Axis_Accel | 16 bit signed |
| 6 | | | - | 8 bit unsigned |
| 7 | | | - | 8 bit unsigned |

Message ID: 0x000A0004
Sources: AEM Vehicle Dynamics Module (30-2203)

| 10ms continuous (100hz) | | | | |
|-------------------------|-----|---------|-----------------|----------------|
| Byte | Bit | Bitmask | DBC Label | Data Type |
| 0-1 | | | X_Axis_Yaw_Rate | 16 bit signed |
| 2-3 | | | Y_Axis_Yaw_Rate | 16 bit signed |
| 4-5 | | | Z_Axis_Yaw_Rate | 16 bit signed |
| 6 | | | - | 8 bit unsigned |
| 7 | | | - | 8 bit unsigned |

Message ID: 0x00000026
Sources: AEM WB Ethanol/Boost Gauge (30-4910)

| 10ms continuous (100hz) | | | | |
|-------------------------|---------|---------|---------------------------|-----------------|
| Byte | Bit | Bitmask | Label | Data Type |
| 0-1 | | | Lambda | 16 bit unsigned |
| 2-3 | | | Pressure | 16 bit unsigned |
| 4 | | | Fuel Temperature | 8 bit signed |
| 5 | | | Flex Fuel Ethanol Content | 8 bit unsigned |
| 6 | 0 (lsb) | 0 | AFR Ready | Boolean |
| | 1 | 2 | AFR Heater Open Error | Boolean |
| | 2 | 4 | AFR C12.25 Error | Boolean |
| | 3 | 8 | AFR Sensor Heating Up | Boolean |
| | 4 | 16 | AFR Low Voltage | Boolean |
| | 5 | 32 | AFR Heater Time-Out Error | Boolean |
| 7 (msb) | 6 | 64 | AFR Heater Short Error | Boolean |
| | 7 | 128 | AFR Overtemp Error | Boolean |
| | 0 (lsb) | 0 | Alarm Status | Boolean |
| | 1 | 2 | Alarm Source | Boolean |
| | 2 | 4 | Alarm Source | Boolean |
| | 3 | 8 | Alarm Source | Boolean |

| SI Units (C / kPa / kph / Lambda) | | | |
|-------------------------------------|--------|-----------------|---------------|
| Scaling | Offset | Range | DBC Unit Type |
| 0.01 bar/bit | 0 | 0 to 655.35 bar | pressure:bar |

| US Units (F / PSI / MPH / AFR) | | | |
|----------------------------------|--------|--------------------|---------------------|
| Scaling | Offset | Range | DBC Unit Type |
| 0.1450377 PSig/bit | 0 | 0 to 9502.575 PSig | pressure_gauge:psig |

| Contained in CAN DBC Files*: TBD | | | |
|-------------------------------------|--------|-----------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 1 degC/bit | 0 | 0 to 65535 degC | temperature:C |

| Contained in CAN DBC Files*: TBD | | | |
|----------------------------------|--------|------------------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 1.8 degF/bit | 32 | 0 to 117995 degF | temperature:F |

| Contained in CAN DBC Files*: TBD | | | |
|-------------------------------------|--------|-----------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 1 degC/bit | 0 | 0 to 65535 degC | temperature:C |

| Contained in CAN DBC Files*: TBD | | | |
|----------------------------------|--------|------------------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 1.8 degF/bit | 32 | 0 to 117995 degF | temperature:F |

| Contained in CAN DBC Files*: TBD | | | |
|-------------------------------------|--------|-----------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.01 bar/bit | 0 | 0 to 655.35 bar | pressure:bar |

| Contained in CAN DBC Files*: TBD | | | |
|----------------------------------|--------|--------------------|---------------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.1450377 PSig/bit | 0 | 0 to 9502.575 PSig | pressure_gauge:psig |

| Contained in CAN DBC Files*: TBD | | | |
|-------------------------------------|--------|-----------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.01 bar/bit | 0 | 0 to 655.35 bar | pressure:bar |

| Contained in CAN DBC Files*: TBD | | | |
|----------------------------------|--------|--------------------|---------------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.1450377 PSig/bit | 0 | 0 to 9502.575 PSig | pressure_gauge:psig |

| Contained in CAN DBC Files*: TBD | | | |
|-------------------------------------|--------|-----------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.01 bar/bit | 0 | 0 to 655.35 bar | pressure:bar |

| Contained in CAN DBC Files*: TBD | | | |
|----------------------------------|--------|--------------------|---------------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.1450377 PSig/bit | 0 | 0 to 9502.575 PSig | pressure_gauge:psig |

| Contained in CAN DBC Files*: TBD | | | |
|-------------------------------------|--------|-----------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.0006894757 bar/bit | 0 | 0 to 45.184 bar | pressure:bar |

| Contained in CAN DBC Files*: TBD | | | |
|----------------------------------|--------|------------------|---------------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| .01 psig/bit | 0 | 0 to 655.35 psig | pressure_gauge:psig |

| Contained in CAN DBC Files*: AEM VDM 30-2203 SI 20161008.dbc | | | |
|--|--------|--|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| Degrees reference WGS-84 datum North is positive | 0 | +90.00 (north) to -90.00 (south) Degrees | angle:deg |
| Degrees reference WGS-84 datum East is positive | 0 | +180.00 (east) to -180.00 (west) Degrees | angle:deg |

| Contained in CAN DBC Files*: AEM VDM 30-2203 US 20161008.dbc | | | |
|--|--------|-------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |

| Contained in CAN DBC Files*: AEM VDM 30-2203 SI 20161008.dbc | | | |
|--|--------|--------------------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.010609344 kph/bit | 0 | 0 to 1054.684 kph | speed:mph |
| 0.3048 meter/bit | 0 | -9.887 to 9.887.4 meters | distance:m |
| 0.01 deg/bit | 0 | 0 to 655.35 degrees | angle:deg |
| 1 | 0 | 0 to 255 | unitless: |
| 1 | 0 | 0 to 255 | unitless: |

| Contained in CAN DBC Files*: AEM VDM 30-2203 US 20161008.dbc | | | |
|--|--------|------------------------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.01 mph/bit | 0 | 0 to 655.35 MPH | speed:mph |
| 1 ft/bit | 0 | -32,768 to 32,767 Feet | distance:ft |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |

| Contained in CAN DBC Files*: AEM VDM 30-2203 SI 20161008.dbc | | | |
|--|--------|---------------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0 = N/A, 1 = OK | 0 | 0-255 | unitless: |
| 2000 | 2000 | 2000-2255 Years UTC | unitless: |
| 1 | 0 | 0-255 Months UTC | unitless: |
| 1 | 0 | 0-255 Days UTC | time:day |
| 1 | 0 | 0-255 | unitless: |
| 1 | 0 | 0-255 Hours UTC | time:h |
| 1 | 0 | 0-255 Minutes UTC | time:min |
| 1 | 0 | 0-255 Seconds UTC | time:s |

| Contained in CAN DBC Files*: AEM VDM 30-2203 US 20161008.dbc | | | |
|--|--------|-------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |

| Contained in CAN DBC Files*: AEM VDM 30-2203 SI 20161008.dbc | | | |
|--|--------|------------|----------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.0002441406 g /bit | 0 | -8g to +8g | acceleration:G |
| 0.0002441406 g /bit | 0 | -8g to +8g | acceleration:G |
| 0.0002441406 g /bit | 0 | -8g to +8g | acceleration:G |
| 1 | 0 | --- | --- |
| 1 | 0 | --- | --- |

| Contained in CAN DBC Files*: AEM VDM 30-2203 US 20161008.dbc | | | |
|--|--------|-------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |

| Contained in CAN DBC Files*: AEM VDM 30-2203 SI 20161008.dbc | | | |
|--|--------|--------------------------|---------------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| 0.01525879 deg/s/bit | 0 | -500 deg/s to +500 deg/s | angular_speed:deg/s |
| 0.01525879 deg/s/bit | 0 | -500 deg/s to +500 deg/s | angular_speed:deg/s |
| 0.01525879 deg/s/bit | 0 | -500 deg/s to +500 deg/s | angular_speed:deg/s |
| 1 | 0 | --- | --- |
| 1 | 0 | --- | --- |

| Contained in CAN DBC Files*: AEM VDM 30-2203 US 20161008.dbc | | | |
|--|--------|-------|---------------|
| US Units (F / PSI / MPH / AFR) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |
| <=== | <=== | <=== | <=== |

| Contained in CAN DBC Files* | | TBD | |
|-------------------------------------|----------|-------------------------|---------------|
| SI Units (C / kPa / kph / Lambda) | | | |
| Scaling | Offset | Range | DBC Unit Type |
| .0001 Lambda/bit | 0 | 0 to 6.5535 Lambda | afR-LA |
| 0.00689476 kPa/bit | -2.09636 | -2.09636 to 449.752 kPa | pressure:kPa |
| 1 degC/bit | 0 | -40 degC to 125 degC | temperature:C |
| 1 %/bit | 0 | 0 to 100% | fraction:% |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |
| 0 = false, 1 = true | 0 | 0/1 | unitless: |

| | | | |
|---------|-----|-----|---------|
| 4 | 16 | --- | Boolean |
| 5 | 32 | --- | Boolean |
| 6 | 64 | --- | Boolean |
| 7 (msb) | 128 | --- | Boolean |

| | | | |
|-----|-----|-----|-----|
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |

| | | | |
|-----|-----|-----|-----|
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |

Message ID: 0x00000027

Sources: AEM WB Ethanol/Boost Gauge (30-4910)
10ms continuous (100hz)

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|---------------------|-----------------|
| 0-1 | | | Lambda Upper Limit | 16 bit unsigned |
| 2-3 | | | Lambda Lower Limit | 16 bit unsigned |
| 4-5 | | | Alarm Delay Limit | 16 bit unsigned |
| 6-7 | | | Alarm Delay Counter | 16 bit unsigned |

| Contained in CAN DBC Files* | | TBD | |
|-----------------------------|--------|--------------------|---------------|
| Scaling | Offset | Range | DBC Unit Type |
| .0001 Lambda/bit | 0 | 0 to 6.5535 Lambda | afr:LA |
| .0001 Lambda/bit | 0 | 0 to 6.5535 Lambda | afr:LA |
| 1 mS/bit | 0 | 0 to 65,535 mS | time:ms |
| 1 mS/bit | 0 | 0 to 65,535 mS | time:ms |

| Contained in CAN DBC Files* | | TBD | |
|-----------------------------|--------|------------------|------------------|
| Scaling | Offset | Range | DBC Unit Type |
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | afr:AFR Gasoline |
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | afr:AFR Gasoline |
| <== | <== | <== | <== |
| <== | <== | <== | <== |

Message ID: 0x00000028

Sources: AEM WB Ethanol/Boost Gauge (30-4910)
10ms (100hz) only in alarm mode

| Byte | Bit | Bitmask | Label | Data Type |
|------|-----|---------|---------------------|-----------------|
| 0-1 | | | Alarm Lambda | 16 bit unsigned |
| 2-3 | | | Alarm Pressure | 16 bit unsigned |
| 4-5 | | | Alarm Reset Limit | 16 bit unsigned |
| 6-7 | | | Alarm Reset Counter | 16 bit unsigned |

| Contained in CAN DBC Files* | | TBD | |
|-----------------------------|----------|-------------------------|---------------|
| Scaling | Offset | Range | DBC Unit Type |
| .0001 Lambda/bit | 0 | 0 to 6.5535 Lambda | afr:LA |
| 0.00689476 kPa/bit | -2.09636 | -2.09636 to 449.752 kPa | pressure:kPa |
| 1 mS/bit | 0 | 0 to 65,535 mS | time:ms |
| 1 mS/bit | 0 | 0 to 65,535 mS | time:ms |

| Contained in CAN DBC Files* | | TBD | |
|-----------------------------|--------|-------------------|-----------------------|
| Scaling | Offset | Range | DBC Unit Type |
| .001465 AFR/bit | 0 | 0 to 96.0088 AFR | afr:AFR Gasoline |
| .001 PSI/bit | -15 | -15 to 50.535 PSI | pressure_gauge:psi(g) |
| <== | <== | <== | <== |
| <== | <== | <== | <== |

* ECU, VDM, Air/Fuel Sensor/Devices, DBC files can be found at <http://aemelectronics.com/?q=forum/dbc-files-can-configuration-downloads-requests-share>