

# ED2 Series SkidWeigh With Engine Idle Limiter

## Forklifts/Loaders Applications

### ED2-300 Series

### On-board Check Weighing & Engine Idle Limiter

The ED2-300 Series SkidWeigh in addition to the automatic check weighing is designed to help save fuel and protect the environment by limiting the time that an engine is permitted to remain idling when the vehicle is standing unloaded. The installation of the system will assure compliance with recent enacted laws regulating the allowable idle times of certain classes of industrial vehicle



Emission laws are becoming more strict concerning engine idling. California, New Jersey, Florida, Maryland, Pennsylvania, Massachusetts and New York have passed legislation limiting the idle times of industrial vehicles to no more than 5 minutes. Similar legislations pending in other states. For updated information on Compendium of Idling Regulations contact American Transportation Research Institute (ATRI).

#### Features

- Automatic engine shutdown if a engine idles to extended periods
- Standard engine idle time set to 5 minutes
- End user adjustable idle time to any time out applicable
- Digital display of time out warning
- Digital display of time out warning in seconds after 50% of pre-set engine time out value
- Visual digital display warning when after engine shutdown
- A countdown sequence is initiated when vehicle operational and standing unloaded
- On-board Check Weighing function
- Universal operating voltage, 12 to 55 V DC

#### Benefits

- Prohibits excess engine idling
- Extends the life of engine components
- Prevents costly engine failure
- Reduces downtime & running costs
- Reduces and stops fuel waste
- Reduces engine hours
- Reduces noise and pollution
- The ED2-300 Series SkidWeigh with engine idle control is activated automatically when vehicle is standing unloaded.

This is a true countdown sequence that does not depend on various inputs from the vehicle or operator (Operator seat switch, engine idle RPM, vehicle parking brake, seat belt) found on some other systems on the market.

## Engine Idle Limiter Module

- Complies with Region 1EPA Mandatory Idle Limit and conforms to Federal Motor Carrier Safety Regulation 49.CFR393
- Complies with CAT SEPD0967 Mobile Earthmoving Equipment Automatic Engine Shutoff System safety recommendation
- Optional 3 minutes shut down, Complies with D, CT & DC idling limits
- Gasoline or diesel engine application
- 12 or 24 V DC Operation (12 to 55 V DC module)
- Manual or automatic transmission
- Quick installation
- Standard:
- Two wires installation, (No accessory control) Relay contacts max. load of 10A.
- *Optional:*  
*Accessory shutdown module to save battery*
- Inhibits shutdown during regeneration cycle
- Two wire electrical connection
- Digital time out shown to the operator
- End user input for any time out value

## On-board Check Weighing

- Operating voltage 12 to 55 V DC
- Current: Operating 30 mA
- Current: Operating with engine idle module 80 mA
- Enclosure Size: 120 x 80 x 55 mm
- Technology: Micro Controller
- Water, dust and corrosion resistant, 4X
- Pressure transducer port, male thread 1/4"-18 NPT
- Transducer proof pressure 6000 PSI
- Transducer built-in pressure snubber
- System check weighing accuracy is +/- 0.5% to 1% of forklift lifting capacity



## Operation

A countdown sequence is initiated when vehicle is operating and standing unloaded. If the vehicle is moved unloaded, loaded or loads are being lifted before the time out period expires the unit will be reset and engine will not shut down.

The unit is connected to the Run, Fuel pump or Coil circuit on the engine input.

When vehicle is standing unloaded time out sequence will be initiated even if the forklift operator is seated. Once the time out value reaches 50% digital display will show in seconds remaining time before engine will shut down.

If the engine shut down occurs digital display will flash and show 0's on all six digits. To restart the engine operator has to turn ignition switch Off and than to the start position.

Standard **ED2-300** model does not control any accessories. Module is supplied with 10 A relay contact output to shut down the engine.

## Order Number: ED2-300

The ED2-300 system can be used on any type of forklift regardless of the make, model, lift capacity or operating voltage. Default Engine Idle Time is 300 seconds (5 minutes). The end user can change this time out to any other value applicable within the operation.

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