



Guideline / Hour meter readings – terms and definitions for industrial trucks

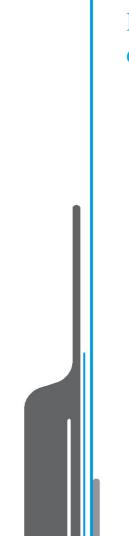


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Introduction

Hour meters are instruments fitted on industrial trucks for the purpose of measuring elapsed time. They may be used for service scheduling, warranty judgements and as an indication of truck usage.

The readings may also be used for determining truck utilization for commercial operations. Therefore, it is important that common definitions are used.

1 Scope

The purpose of this document is to define the terms used in relation to time displayed on hour meters fitted to industrial trucks.

2 Terms and definitions

Hour meter

A generic term for the device that displays elapsed time.

The hour meter can be connected to display one or several of defined readings below.

E-time reading

Availability and service time for internal combustion trucks

A- time reading.

Availability time. Time when a truck is available for use for its intended purpose.

S- time reading

Service time. Time when a truck is technically used for its intended purpose.

3 Performance

4.1 Internal combustion trucks

E- time. Total IC engine time is registered.

4.2 Electrically powered trucks

4.2.1 A-time connection

That time when the key (or other access control system) is on and operator presence is detected.

4.2.2 S-time connection

Following time is registered:

- All motors with the nominal power above 50 W on time, e.g. traction, pump or steering
- electrically energised valve on time
- energised coils of electrical brake

Note: Following time is not registered:

- ▶ Logic card on time for truck or terminal on board
- > Panel light, working lights and control lamps
- Cooling fans or heaters

4.2.3 The displayed time

The displayed time for electrical trucks can be either A time or S time depending on options available and user preferences

4.3 Hybrid trucks

If the truck uses a combination of both IC engine and electrical motor(s) the hour meter shall register combination of:

- ► E and A for availability
- ➢ E and S for service

4.4 General

Registering of time is actual clock time even when several conditions for registering are met, e.g. when traction and pump motors are running at the same time.

Post registering of running time is not allowed, e.g. hour meter must stop registering time immediately power ceases to energise motor(s)/valve(s).

The recommendations and advice contained in this Guidance Note are based on procedures specifications, and other information that have been collected from the FEM from its members. They represent what is, as far as FEM is aware, the best available data at the time of publication on the instruction and use of the equipment concerned in the general conditions described and are intended to provide guidance for such use.

The suitability of this Guidance Note must be determined by the judgement of the person applying it in accordance with the conditions in which use is envisaged and subject to all relevant statutory requirements.

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