

Electronic Safe Lift Indicator / Recorder

Lift-O-Graph

ECCR-125 Series

Material Handling Vehicle Lift Activity Data

Measuring Range is 10-125% of the Vehicle Lifting Capacity

Compact design combined with microprocessor-controlled processing of measured values and analog load indication/recording are the main characteristics of the compact **Lift-O-Graph ECCR Series**. This fully automatic electronic device will show the operator all of the vehicle lifts and overloads on a large analog dial showing in % of the vehicle lifting capacity. The most popular system application is for large lifting capacity forklifts as the "safe load lift indicator". The standard system also can be installed on any lift truck, regardless of the vehicle, make or model. The adjustable overload AUDIO/VISUAL warning is standard on all of the **ECCR Series**.

Every time a load is picked up, the increase in hydraulic pressure on the vehicle will automatically activate the "weighing cycle" and convert it to a load weight measurement that is visually presented to the operator via a large analog dial in %. The recording version of the **ECCR Series** will record all vehicle lifts on the circular inkless (wax coated) 24 hour chart.



When a load weight is not clearly marked or not marked at all and loads are moved and lifted to different heights, there is a danger to the vehicle stability and overloads. Generally this is not a problem when you are constantly working with the same kind of products. However, in the real world operational environment you could encounter problems when you have to lift "unknown items", specially general freight.

Features

- Automatic recording of all lifts
- Automatic recording of lifting time
- Adjustable overload warning signal
- Audio/Visual overload warning
- Illuminated back lighting with luminescent pointer for night vision
- Visual real time quartz clock
- Visual load indication
- Optional additional event recordings
- Self-diagnosis, electronic monitoring of the supply voltage and input pressure signal
- Circular chart, 24 hour recording of vehicle lifts
- Overload warning settings range between 40% and 125% of vehicle lifting capacity
- Wax coated (inkless) recording charts

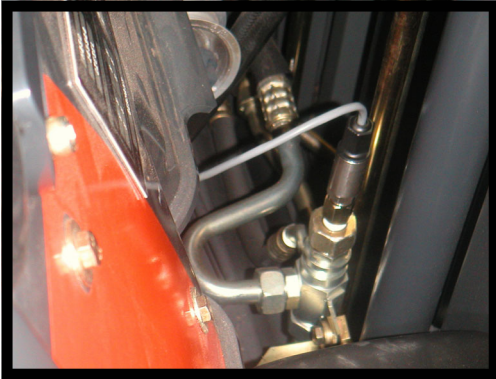
System Application

The application for any material handling operation where continual visual load lifting indication is required, is to show in a % of the vehicle's lifting capacity. This will aid the operator to utilize the equipment efficiently and safely.



Compact Lift-O-Graph with visual load and overload warning

The **ECCR-125** Series system can be easily installed and calibrated by a local lift truck dealer technician or end user's lift truck mechanic.



Technical Data

Electrical

- Voltage 12 V standard, (Optional voltage 24 to 55 V)
- Current: idle 30 mA , operating 420 mA

Environmental

- Operating temperature -25°C to $+70^{\circ}\text{C}$

Physical

- Mounting depth 89 mm, opening radius of cover 124 mm

Technology

- Micro Controller

Mounting Position

- 0° to 90°

Protection

- IP24 acc. to EN 60529

EMC

- DIN/VDE 0879T3 / IEC 801-2 / ISO 7637

Vibration

- 10-60 HZ, 0,35 mm

Casing

- Noryl (PPO) with 30% fiberglas

Weight

- 1080 g

Vehicle Load Measuring Range

- 10 to 125% of vehicle lifting capacity

Load indication / recording tolerance

- +/- 2% of vehicle lifting capacity

Pressure Transducer

- Port connection, male thread 1/4"-18 NPT
- Proof pressure, 2.5 x range or 6,000 PSI
- Built-in pressure snubber
- Environmental: NEMA 4X
- Reverse polarity protection
- Over voltage protection
- Short circuit protection
- Housing material, Stainless steel, (AISI 303)
- Weight 95 grams
- Installation, unrestricted

Mounting Bracket

- Indicator mounting bracket included with each system

Interface Module

- Load weighing interface module with wiring harness for 12 V DC operating voltage

Order Number for Recording System:

- Standard 12 V DC system: **ECCR-125-12**
- Optional 24 to 55 V DC system: **ECCR-125-24/55**

