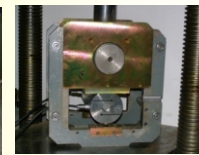


**NATIONAL INSTITUTE FOR RESEARCH,
DEVELOPMENT AND TESTING
IN ELECTRICAL ENGINEERING**

LOAD LIMITING/ LOAD MOMENT LIMITING DEVICES FOR CRANES

ICMET Craiova has the **Quality Management System** implemented according to the **Standard ISO 9001:2000**, and the **Environment Management System** implemented according to the **Standard 14001:2004**.



118A, Decebal Ave.
200746 Craiova, Romania
Phone: +40 351 404 888; +40 351 404 889
Fax: +40 351 404 890
E-mail: market@icmet.ro, @icmet.ro
www.icmet.ro



The load limiting devices and the load moment limiting devices are safety components for the hoisting units (hoist cranes, traveling cranes) and they are meant for interrupting automatically the driving of the hoisting gears when the prescribed values are exceeded.

ICMET Craiova is authorized by ISCIR (Romanian State Inspection for the Control of Hoisting Units and Pressure Vessels) for designing, mounting and adjusting the safety crane components.

SCOPE

The load limiting devices and the load moment limiting devices are intended for fitting out the hoisting units (hook or grab cranes, traveling cranes, harbour cranes) with a view to protecting them against stability loosing or overloading.

They are built according to ISO 10245:1994 "Cranes. Limiting and Indicating Devices"

TECHNICAL CHARACTERISTICS

- Rated force on load cell : maximum 1000 kN
- Repeatability error : maximum 2%
- Accuracy (for indicating the load): 1
- Supply voltage : 230V AC +10% -20% / 50Hz
- Operating temperature :
 - electronic unit : +5°C...+40°C;
 - the other components: -10°C ...+50°C;
- Standard protection degree:
 - force transducer : minimum IP56;
 - the other components: IP54;
- Maximum static overload on force transducer: 150%
- Destructive overload on force transducer: >300%
- Digit height (for display) :
 - 100 mm (visible from 50 m distance);
 - 200 mm (visible from 100 m distance).

FUNCTIONS

- Load limitation (traveling cranes and hoist cranes, other than portal slewing cranes*)
- Load limitation according to the working diagram of the crane (for portal slewing cranes)
- Optical and/or acoustic warning when the limitation threshold is exceeded
- Indication of hook load value on display built-in electronic unit, within the cab of the hoisting unit
- Indication of jib span (for portal slewing cranes) on display built-in electronic unit, within the cab of the crane
- Indication of hook load value on large display (h=100 or 200 mm) visible from the ground (optionally)

*The number of the limitation thresholds and their values are specified by the product beneficiary, with the observance of the field regulations

STRUCTURE

- one or many load cells (with built-in resistive strain transducers having high accuracy and reliability), depending on the application;
- microcontroller-based electronic unit for data acquisition and processing;
- transducer for the span of the jib (for portal slewing cranes only);
- display (h=100 or 200 mm).

