

Applicant

Name: Cargotec CHS PTE LTD BROMMA
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Issuing authority

Name: RISE Research Institutes of Sweden AB
Address: Box 857, SE-501 15 Borås, Sweden
Person responsible: Lennart Aronsson

Manufacturer of the certified type is the applicant.

Identification of the certified type

A graduated, self-indicating, electronic, automatic weighing instrument.

The certified type	Load Sensing System version 1
Accuracy class	Y(b)
Number of verification scale intervals	$n \leq 200$

(Identification continued on next page.)

This certificate attests the conformity of the above-mentioned type (represented by the samples identified in the associated report) with the requirements of the following Recommendation(s) of the International Organization of Legal Metrology (OIML):
R51, edition 2006.

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation(s).

This certificate does not bestow any form of legal international approval.

The conformity was established by tests described in the associated test 6P0240-1 dated 2016-06-28.

Lennart Aronsson

Bengt Gutfelt

Certificate No. R51/2006-B-SE1-19.02 | issue 1 | 2019-06-28

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2017-11-18



6P09600-4

Identification of the certified pattern

General description

The Load Sensing System version 1 is an automatic weighing instrument with four or eight loadcells integrated into the spreader twist locks. It is designed for weighing of containers during a normal lift cycle. The system is approved for container handling equipment.

Construction

The Load Sensing System is an integrated part of the spreader and consists of a control unit, an indication unit, a CANopen network and load cells mounted on each twistlock. The spreader, in turn, is attached to a container handling equipment, for example a Yard Crane, Ship to Shore Crane, Reach Stacker or Straddle Carrier. The indicating unit can display weighing result from single- or twin spreaders.

Technical data

Max capacity	<= 52 t
Min capacity	>=1 t
Scale interval,	>=0,2 t
Temperature range	-20 °C to +60 °C
Power supply	11-30 V DC mains

Indicating unit

Type	SCS3, SCS4	CR0451
Manufacturer	Maximatecc	IFM

Digital load cell

Type	0120
Manufacturer	Brosa
Capacity	15000 kg
EMC class	E2

Interfaces

The instrument may be equipped with the following protective interfaces:
Crane Interface: CANopen (DS444) and CAN2. Other Interfaces: Ethernet, RS-232, USB