

Office for Product Safety & Standards



OIML Member State United Kingdom of Great Britain and Northern Ireland

OIML Certificate No. R51/2006-A-GB1-23.02

OIML CERTIFICATE ISSUED UNDER SCHEME A				
OIML Issuing Authority	Office for Product Safety and Standards Stanton Avenue Teddington TW11 0JZ United Kingdom			
Person responsible:	Mannie Panesar			
Applicant	Topcon Technology Ltd Cirencester Road, Minchinhampton, Stroud, Gloucestershire GL6 9BH United Kingdom			
Manufacturer	The applicant			
Identification of the certified type	Loadmaster Alpha 50 (the detailed characteristics are defined in the Descriptive Annex)			

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 51, Edition: 2006

For accuracy class: Y(b)

Issue date: 19 January 2023

The OIML Issuing Authority

Marek Bokota Technical Manager For and on behalf of the Office for Product Safety and Standards This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. P02989-2 Type Evaluation Report dated 19 January 2023 that includes 14 pages

The technical documentation relating to the identified type is contained in documentation file:

No. P02989-2-D dated 19 January 2023

OIML Certificate History

Revision No.	Date	Description of the modification
0	19 January 2023	OIML Certificate first issued.
-	-	-

No revisions have been issued.

Important note:

Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

DESCRIPTIVE ANNEX

Characteristics of the instrument:

This pattern of an automatic catchweighing instrument, powered by a road vehicle battery, designated the Loadmaster Alpha 50, comprises an indicator with touchscreen and soft key controls, "Terminator" junction box, pressure transducers and sensors mounted on a wheeled loader. This pattern automatically determines the load in the bucket during the lifting process, the hydraulic pressure in the loader's arms is converted by a pressure transducer, the output being used by the indicator to display the corresponding weight.

Components/modules:

- Pressure transducer(s)
- Positional sensors
- Temperature sensor
- Chassis inclinometer
- Junction box (MK5)
- Cab termination box
- Loadmatsre Alpha 50 indicator

Technical data:

Maximum capacity (Max)	≤ 50,000 kg
Scale interval (e =)	≥ 10 kg
Minimum capacity (Min)	≥ 10 e
Maximum number of scale intervals	250
	≤Max
Pressure transducer	Danfoss type MBS 1250
Transducer measuring range	0-250 bar or 0-400 bar
Transducer output signal	4-20 mA
Minimum sensitivity	35 μA/div
Climatic environment	Indicator, printer, terminator junction box: -25 °C to +50 °C, closed, non-condensing Transducers, sensors. MK5 junction box: -25 °C to +50 °C, open, condensing
Electromagnetic environment	E3
Power supply	11-30 V DC (12 V and 24 V vehicle batteries)
Accuracy class	Y(b)

Interfaces:

- RS232
- CAN 1
- CAN 2

Devices:

- Start up display routine
- Semi-automatic zero setting (± 2% Max)
- Zero indicator
- Over/Under load interlocks
- Unsteady load interlock
- Preset tare (optional)
- Long-term storage device
- Printing (optional)

Software:

The legally relevant software identification shall be as follows: MC20001revX, with X reflecting non-legally relevant changes.

The software identification can be displayed in the USER menu in "About System".

Sealing measures:

Indicator case secured by a tamper evident sticker over the case seam or sealing screw. Transducers sealed via serial numbers written on a tamper-evident label on the indicator. Legally relevant software and parameters sealed via software means ("Event trail").

Alternatives:

- 1. Having the instrument fitted to a telescopic loader with a boom extension sensor.
- 2. Having the instrument set-up with a "Kickout" relay automatically stopping the loading arm at the reference point during the lifting cycle.
- 3. Having the instrument set-up with up to 10 different attachments (bucket, grabs, tines, etc). The attachment identification is displayed at the top of the display. Each attachment is calibrated independently, with the calibration factors recalled when the attachment is selected.
- 4. Having the instrument fitted with an alternative pressure transducer. The alternative pressure transducers are designated "Topcon MK4 250 bar Compact". The metrological characteristics are unchanged except the maximum number of verification scale intervals which is 200. The Topcon MK4 250 bar Compact pressure transducer part number is Z782-131 or S/SR/500-2-131 (drawing number 14373789.01).
- Having the instrument fitted with alternative pressure transducers designated Topcon MKII and MKIII 250 bar Compact. The metrological characteristics are unchanged. The Topcon MKII 250 bar Compact pressure transducer drawing number is S/SR/500-2-110. The Topcon MKIII 250 bar Compact pressure transducer drawing number is S/SR/500-2-120.