



Australian Government

Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval
NMI S887

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Giropes Model GI410 Digital Indicator

submitted by W.W.Wedderburn Pty Limited
 101 Williamson Road
 Ingleburn NSW 2565

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated October 2015.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 5 approved – certificate issued	23/09/26

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S887' and only by persons authorised by the submitter.

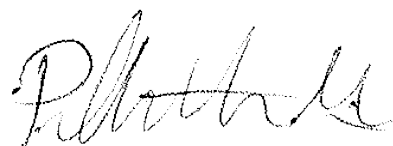
Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S887' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate of Approval No S1/0B.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist
to exercise their powers under Regulation 60 of the
National Measurement Regulations 1999.



Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S887

1. Description of Pattern

approved on 23/09/26

A Giropes model GI410 digital mass indicator (Figure 1 and Table 1) which may be configured to form part of:

- A class  weighing instrument with a single weighing range of up to 6000 verification scale intervals; or
- A class  weighing instrument with a single weighing range of up to 1000 verification scale intervals; or
- A class  multiple range weighing instrument with up to two weighing ranges, in which case it is approved for use with up to 3000 verification scale intervals per weighing range; or
- A class  multiple range weighing instrument with up to two weighing ranges, in which case it is approved for use with up to 1000 verification scale intervals per weighing range.

The changeover between weighing ranges is automatic.

The instrument has a stainless steel housing with an LCD for display of the weight value. The front panel housing the LCD has a numeric panel.

The Giropes model GI410 digital mass indicator may also be known as Wedderburn model WS710.

The pattern may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices (see **clause 1.6** below).

TABLE 1 – Specifications

Maximum number of verification scale intervals	6000 or 3000 per range (class ) 1000 (class )
Minimum sensitivity	0.3 μ V/scale interval
Excitation voltage	5 V DC
Maximum excitation current	172 mA
Fraction of maximum permissible error	$p_i = 0.5$
Minimum load cell impedance	29 Ω
Maximum load cell impedance	1100 Ω
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	+30 mV
Operating temperature range	-10 °C to +40 °C
Maximum tare range	-100%Max
Load cell connection	4-wire or 6-wire shielded
Maximum value of load cell cable length per wire cross section *	651 m/mm ² (6-wire only)

(*) Additional connection cable between indicator and load cell or load cell junction box. In case a 4-wire connection is used, the load cells are connected directly without a junction box or lengthening the load cell(s) cable.

This approval does not include the use of the indicator as an automatic weighing instrument, unless specifically mentioned in a certificate of approval for such an instrument.

1.1 Zero

A zero-tracking device may be fitted.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic subtractive tare device of up to the maximum capacity of the instrument may be fitted.

A pre-set tare device of up to the maximum capacity of the instrument may also be fitted.

1.3 Linearisation Facility

Instruments are fitted with a linearisation correction facility having up to four points.

1.4 Display Check

A display check is initiated whenever power is applied.

1.5 Power Supply

The indicator operates on mains power supply (100 – 240 V AC, 50/60 Hz).

1.6 Interfaces

The indicator may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document NMI R 76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with General Supplementary Certificate of Approval No NMI S1/0B (in particular in regard to the data and its format).

Indications other than the indications of measured mass (i.e. gross, tare, net, totals) displayed either on the indicator or on an auxiliary or peripheral device, are not for trade use.

Interfaces of the following types may be fitted:

- RS232
- RS485
- Ethernet
- USB
- Bluetooth
- Wi-Fi
- Analogue 4-20 mA / 0-10 V port
- Relays in and output
- RFID reader

1.7 Additional Features

Instruments may be fitted with additional functions such as counting, check weighing, and totalisation. The additional functions (other than the indications of measured mass, i.e. gross, tare, net, totals, displayed either on the indicator or on an auxiliary or peripheral device) are not approved for trade use.

Note: In particular circumstances (e.g. in regard to weighbridge or public weighbridge operation), Trade Measurement legislation or other NMI Certificates of Approval may impose requirements in regard to specific features, methods of operation, or records to be provided (and in what form).

Certain features of this instrument are able to be configured by the installer or user. Whilst NMI believes that an acceptable configuration can be achieved for typical basic modes of operation, it may also be possible for the instrument to be configured to produce unacceptable configurations, and use of some configurations may be inappropriate in different situations. It is the responsibility of the installer and user to ensure that the configuration is acceptable and meets relevant requirements for any particular situation.

1.8 Verification Provision

Provision is made for the application of a verification mark.

1.9 Sealing Provision

The instrument is sealed by both physical and software means.

Provision is made for access to the calibration switch within the instrument to be sealed by the use of destructible adhesive labels over the securing screw and to prevent access into the housing as shown in Figure 2.

To check that that calibration changes are protected by SPAN switch, from the weight display, press and hold  button. It will flash **CALCLo** then **PAR-ANE** should be displayed, if not then do not verify. The Calibration setting needs to be closed for Span switch protection.

To reset Span switch protection, do the following:

1. Press  to return to weighing display.
2. Ensure that all load is removed to show **0000**
3. Press and hold  button. To display password display **P 10000**
4. Press  button **CAL_PA** will then be shown
5. Press  button **CALoPE** is shown (Calibration Open)
6. Press  button to change to **CALCLo** (Calibration Close)
7. Press  button
8. Press  button to show **SAVE P** (Save Yes)

9. Press  button

It will then return to the weighing screen.

1.10 Software Version

The weighing software version is designated P1.004. The internal firmware version is G 10.08 EH92H100. The program loader is L 3.005, and the software version is v1.000.

Software versions and numbers are displayed at power on.

1.11 Descriptive Markings and Notices

Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	Giropes
Importer's mark, or name written in full	WEDDERBURN
Indication of accuracy class	III or IIII
Maximum capacity	<i>Max</i> kg #1
Minimum capacity	<i>Min</i> kg #1
Verification scale interval	<i>e</i> = kg #1
Maximum subtractive tare	<i>T</i> = - kg #2
Serial number of the instrument	
Pattern approval number for the indicator	NMI S887
Pattern approval mark for other components	 #3

#1 These markings are shown near the display of the result.

#2 This marking is required if *T* is not equal to *Max*

#3 May be located separately from the other markings.

In addition, instruments not greater than 100 kg capacity shall carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

Note:

For multiple range instruments, the maximum capacity, minimum capacity and verification scale interval for each range shall be marked, with an indication of the range to which they apply, e.g.

Range	W1	W2
<i>Max</i>	 kg	 kg
<i>Min</i>	 kg	 kg
<i>e</i> =	 kg	 kg

2. Description of Variant 1

approved on 23/09/26

The Giropes model GI410 which is similar to the pattern but having an ABS housing as shown in Figure 3. It may also be fitted with either access points in the ABS housing for the connection of auxiliary and/or peripheral devices as shown in Figure 4a or have mounted connection points for the connection of auxiliary and/or peripheral devices as shown in Figure 4b.

The Giropes model GI410 digital mass indicator with ABS housing may also be known as Wedderburn model WS710.

3. Description of Variant 2 **approved on 23/09/26**

The Giropes model GI410-EX which is similar to the pattern and variant 1 but with an IP 68 angled stainless steel housing as shown in Figure 5. It may also be fitted with access points in the housing for the connection of auxiliary and/or peripheral devices as shown in Figure 6.

The Giropes model GI410-EX digital mass indicator may also be known as Wedderburn model WS710.

4. Description of Variant 3 **approved on 23/09/26**

The Giropes model GI400 which is similar to the pattern but without a numeric panel as shown in Figure 7. It may also be fitted with either access points in the housing for the connection of auxiliary and/or peripheral devices as shown in Figure 8a or have mounted connection points for the connection of auxiliary and/or peripheral devices as shown in Figure 8b.

The Giropes model GI400 digital mass indicator with a stainless steel housing may also be known as Wedderburn model WS700.

5. Description of Variant 4 **approved on 23/09/26**

The Giropes model GI400 which is similar to the variant 1 but without a numeric panel as shown in Figure 9. It may also be fitted with either access points in the housing for the connection of auxiliary and/or peripheral devices as shown in Figure 4a or have mounted connection points for the connection of auxiliary and/or peripheral devices as shown in Figure 4b.

The Giropes model GI400 digital mass indicator with ABS housing may also be known as Wedderburn model WS700.

6. Description of Variant 5 **approved on 23/09/26**

The Giropes model GI400-EX which is similar to the variant 4 but with an IP 68 angled stainless steel housing as shown in Figure 11. It may also be fitted with access points in the housing for the connection of auxiliary and/or peripheral devices as shown in Figure 12.

The Giropes model GI400-EX digital mass indicator may also be known as Wedderburn model WS700.

TEST PROCEDURE No S887

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

Tests

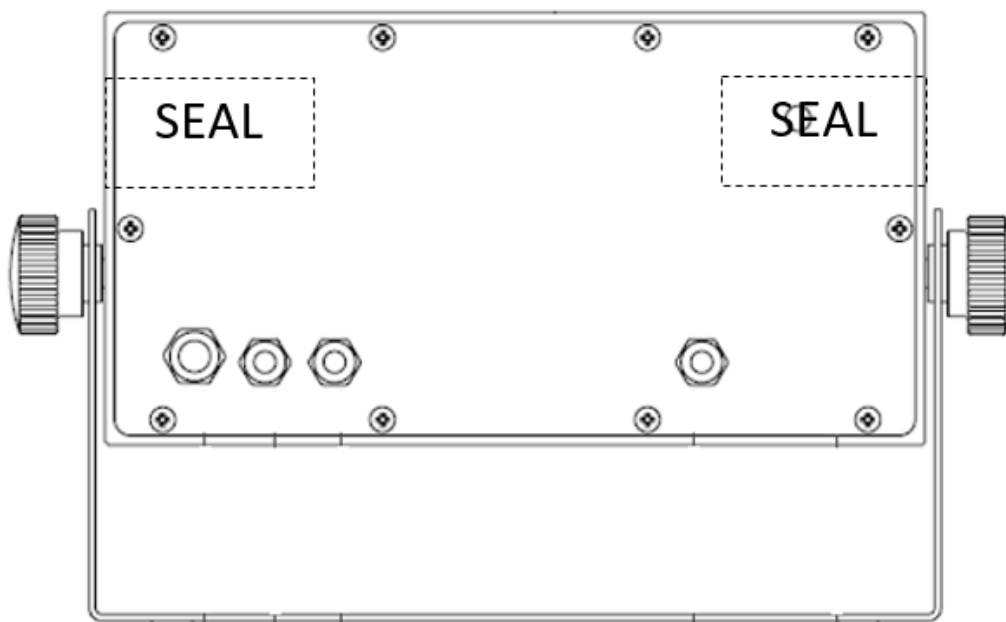
For multi-interval and multiple range instruments with verification scale intervals of e_1 , e_2 ..., apply e_1 for zero adjustment, and maximum permissible errors apply e_1 , e_2 ..., as applicable for the load.

FIGURE S887 – 1



Giropes Model GI410 Digital Indicator With Stainless Steel Housing (Pattern)

FIGURE S887 – 2



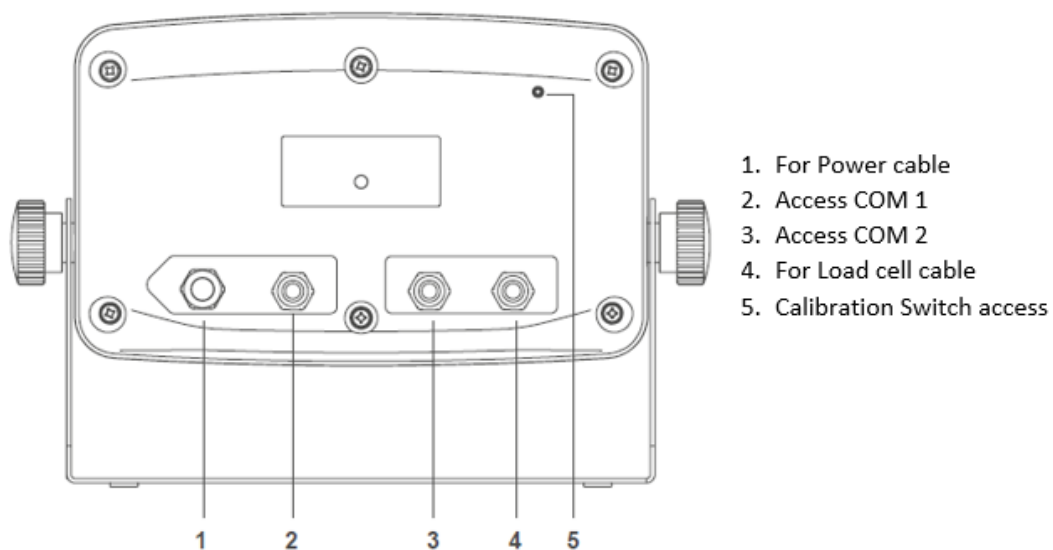
Typical Sealing Method

FIGURE S887 – 3

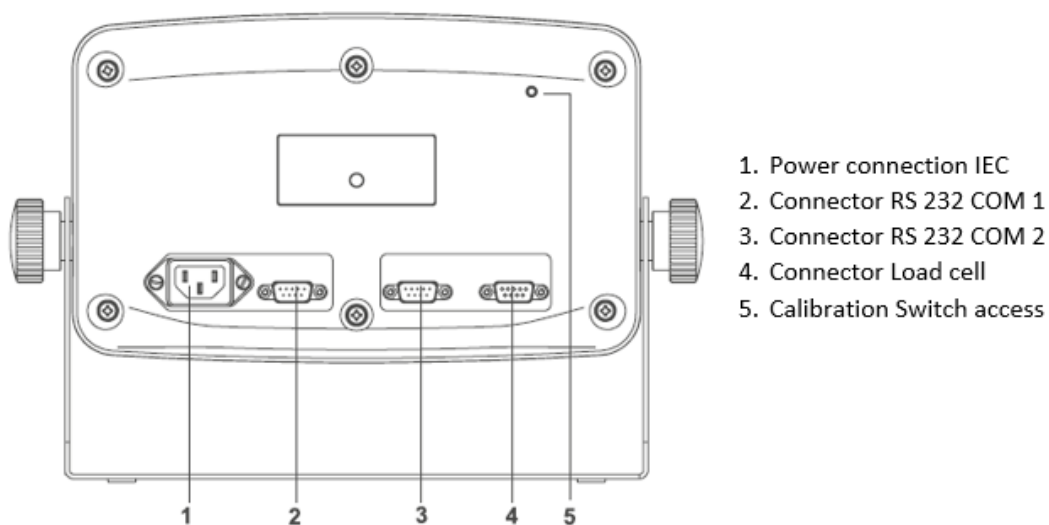


Giropes Model GI410 Digital Indicator with ABS Housing (Variant 1)

FIGURE S887 – 4



a) GI410 and GI400 Access Points For Auxiliary/Peripheral Devices
(Variants 1 and 4)



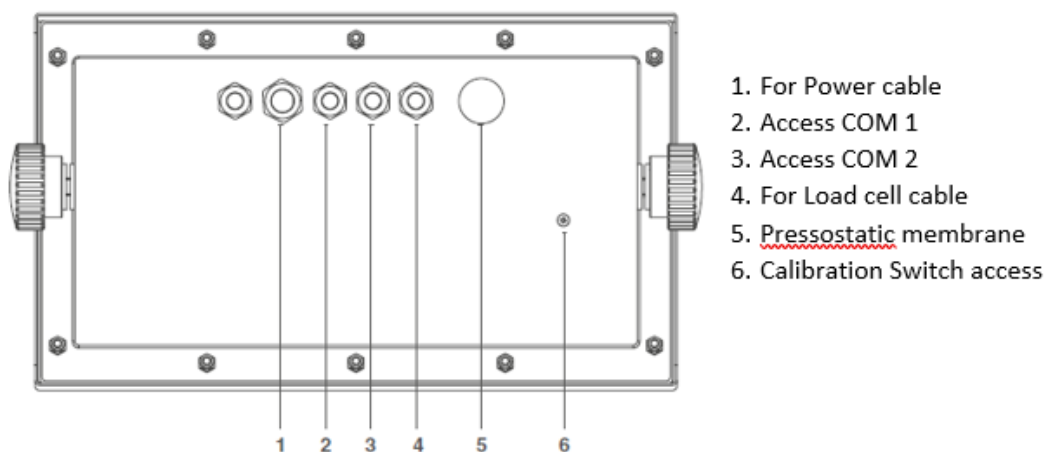
b) GI410 and GI400 Mounted Points For Auxiliary/Peripheral Devices
(Variants 1 and 4)

FIGURE S887 – 5



Giropes Model GI410 Digital Indicator With IP 68 Stainless Steel Housing
(Variant 2)

FIGURE S887 – 6



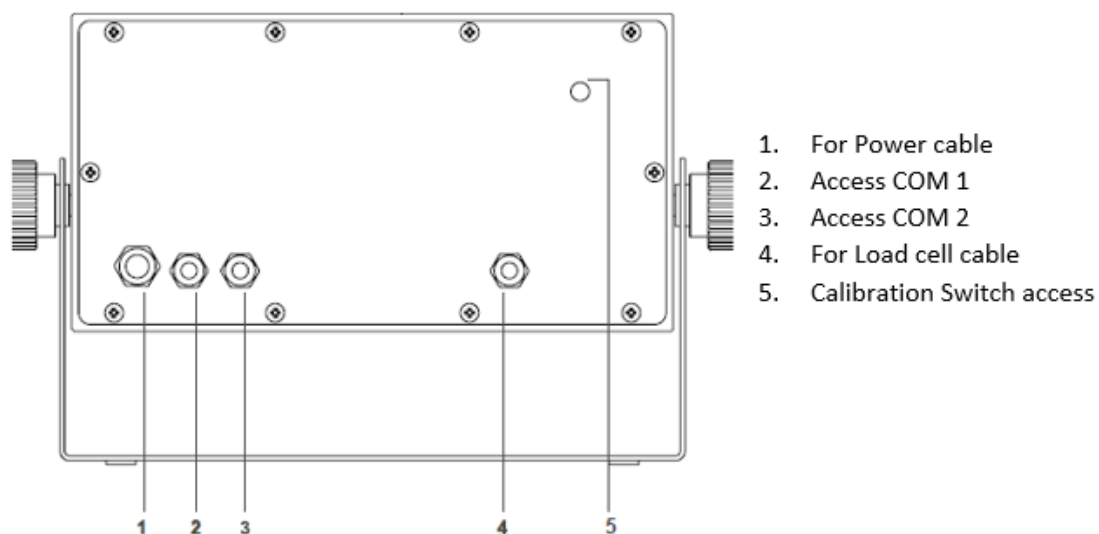
GI410 and GI400 IP 68 Rated Access Points For Auxiliary/Peripheral Devices
(Variants 2 and 5)

FIGURE S887 – 7

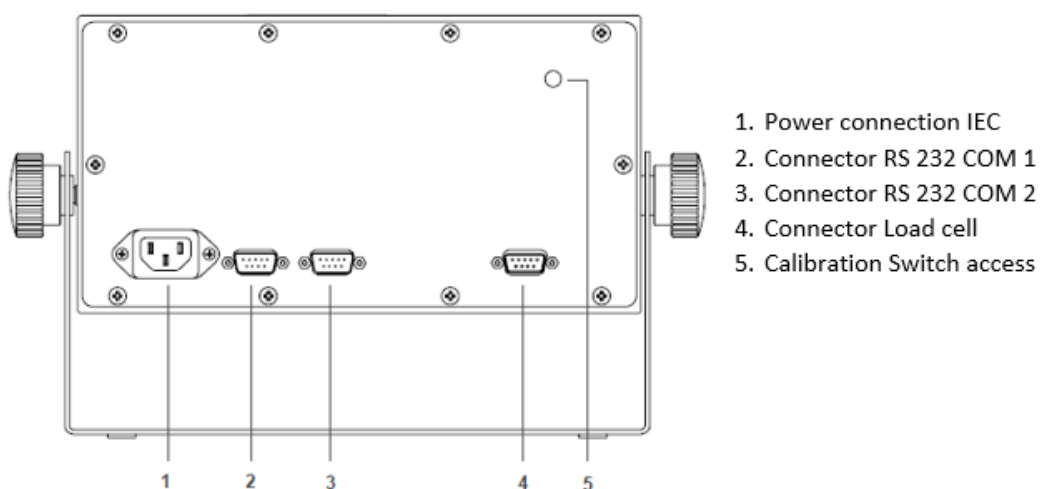


Giropes Model GI400 Digital Indicator With Stainless Steel Housing (Variant 3)

FIGURE S887 – 8



a) GI400 access points For Auxiliary/Peripheral Devices (Variant 3)



b) GI400 Mounted Points For Auxiliary/Peripheral Devices (Variant 3)

FIGURE S887 – 9



Giropes Model GI400 Digital Indicator With ABS Housing (Variant 4)

FIGURE S887 – 10



Giropes Model GI400 Digital Indicator With IP 68 Stainless Steel (Variant 5)

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