RANGE OF WASTE COLLECTING SCALES

Intended use of the calibrated instrument:

It is a digital industrial scale, integrated in the emptying mechanism of refuse collection vehicles, what automatically measures the quantity of emptied waste when it is poured from the waste collecting container to the vehicle. The meter identifies the waste collecting container (RFID) and the measured weight, and records the ID of the container and the time of collection.

Technical and measuring data:

Waste container:

○ Measuring range upper limit:	max. 200 kg
○ Measuring range lower limit:	min. 2.5 kg
○ Scale calibration interval:	e= 0,5 kg
○ Class of accuracy:	waste measuring scale

Collecting containers:

○ Measuring range upper limit:	max. 2000 kg
○ Measuring range lower limit:	min. 25 kg
○ Scale calibration interval:	e= 5 kg
○ Class of accuracy:	waste measuring scale

Category of the instrument:	automatic weighing scale (MID MI-006)
Category of mechanic environment:	installed to a vehicle, MID M3
Electromagnetic compatibility:	MID E3

Measurement of load of the vehicle:

○ Measuring range upper limit:	max. 100 kg…30 tons – (1000 tons)
○ Measuring range lower limit:	min. 20e
○ Scale calibration interval:	d>=100g e= d
○ Class of accuracy: and IIII n<=2000e, 2x1000e, 1000e	It can be calibrated in the weight measurement ranges III

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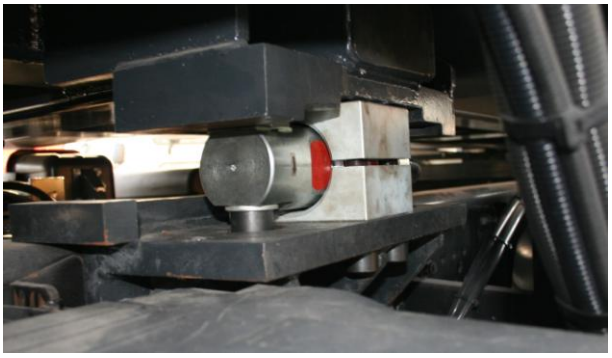
Upper temperature limit:	+55-140 °C
Lower temperature limit:	-25°C
Installed weighing cells:	digital weighing cells controlled via CAN bus
Slanting compensation	by electronic slanting measurement.
Power:	24 V DC from the batteries of the vehicle
Application field of the instrument:	for outdoor use under IP67 protection.

The instrument has an EU type-test certificate, and it conforms to the actual standards of the European Union (EN14803 ; EN45501).

Description of the instrument:

The instrument is installed in the emptying mechanism of refuse collection vehicles. The instrument does not influence the emptying process; the measurement happens automatically when the waste collecting container is lifted, and when the emptied container is lowered. The quantity of waste is a difference between these two measurement results. The instrument automatically recognizes the ID (RFID) of the lifted waste collecting container, and it stores the measured results and the time of measurement without any action by the operators; it does not allow any modification later. The instrument works correctly even in case of sturdy terrain conditions (longitudinal and transversal slanting).

The weight measuring instrument **(measurement of load of the vehicle).**



Accuracy: min. +/- 5 kg, calibrated
The measurement is done by *digital* (not analog!) measuring cells
The weighing scale is not sensitive to shaking, and it is not necessary to lock it during traveling.
It has a liquid crystal (LCD) display with touch screen keypad (scale terminal); the waybill (label) printer is installed in the driver's compartment.
Data of the service provider and the client can be recorded in the measurement records. It can be calibrated in the weight measurement ranges III and IIII; its measurement range is 20 tons.
Daily reports/statements can be polled; tare weight is not lost in case the power is interrupted. USB interface that allows storing the recorded measured data on a normal flash drive.
Both systems have a technical solution to send the measured data in real time in an applicable data format to the IT system of the user at his headquarters through the on-board fleet tracking GPS system of the vehicle. A route optimizing, vehicle tracking, or geographic information system can be interfaced.
Warranty: minimum 12 months; 8 years of spare part supply is available.

Cooperating partners: Tenzi Ltd.., M-U-T Stockerau, M-U-T Hungary Ltd., Seres Ltd.