



Cargo Weight System for Y25-Bogie

Franz Kaminski Waggonbau GmbH • Postfach 10 05 52 • D-31755 Hameln

Measurement Station



Signal Light



Operating Conditions

Application	Determination of cargo netto weight
Bogie Design	Y25
Maximum Load	65000 kg
Minimum Load	1000 kg
Temperature Range	-40 .. 85°C without damage -10 .. 40°C operating range

Characteristics

Solution	< 5 kg
Tolerance	1%, ±650 kg @ 65000kg Load
Display Text	Weight in kg
Signal Light	green,yellow, blue, red depending on defined load limit

Test and Quality

Vibration and Shock	EN 61373
Electrical Emission (EMC)	EN 50121-3-2
Electrical Immunity (EMI)	EN 50155 + EN61000
Quality Management	EN 80079-34

Short Range Radio

Frequency Range	ISM-Band g4: 869,7 .. 870 Mhz
Modulation	GFSK
Data Rate	19200bps
Bandwidth	38400Hz
Transmission Power	< 7dbm (5mW)
Coverage	> 50m

Display

LCD bistabil	Anzeige stromlos 20 Jahre
Character Size	3x5

Battery non rechargeable

Chemistry	LiSOCi2
Nominal Voltage	3,6V
Hours of Operation	1200 h
Standby	10 years

Case

Plastics	ASA 757G Luran S
Protection Category	IP69K
Size	160 x 90 x 60

Assembly

Sensor	welded at side rail of bogie
Measurement Station	attached on a steel sheet welded at side rail of bogie
Signal Light	dattached on a steel sheet welded at an optimal position

Others

RoHS	lead free
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Function Description

Switch On

By pressing the on/off-button on the left.
The Measurement Station activates the display backlight and shows the text „Start“.
System initialisation needs 10 seconds during this time the signal lights will start automatically.
The system automatically starts with the last measured weight.
Weights were added or removed in deactivated condition will not be considered.

Measuring

While running measurement the displayed result will be updated once per second.
The signal lights are automatically controlled by radio. They flash every 2 seconds in the predefined colors. The colors depend on the selected weight limits.

Zero Setting

This is done by pressing the Zero-Button (right Button) until „NULL“ is displayed. It is only possible after system activation.
This procedure should be done once before cargo goods is loaded on the wagon.

Switch Off

The system can be deactivated any time by pressing the on/off-button. It will be deactivated after 30 minutes automatically.

Special Functions

Warning if battery is low, then the measurement is disabled.
Is there a counter for kilometric performance LLZV3 at the wagon, the last measured weight at switch-off will sent to it. The LLZV3 sends this Information with the next status email.