



Description

The **AR-D4309** type weighing-in-motion terminal is a perfect solution for station line in motion railway scales and for in motion truck scales (LSWIM $v < 20$ km/h).

The **AR-D4309** terminal matches the requirements for the static accuracy III. according to the OIML R76, in-motion accuracy according to the OIML R134 and OIML R106 standards. All of the weighing procedures and results can be identified or retrieved according to the ISO 9000 standard. The users can check the accuracy at any time.

The **AR-D4309** terminal provides a direct network interface to the **AR-UNIDIS** process visualization and the **AR-UNIDAT** weighing management softwares, to the **ARDIN** integrated systems, to transfer the stored weighing data and the log files to the OpenVPN-based remote access service (RAS).

The terminal - depending on its type – is able to drive a maximum of three bridges or twelve standard load cells.

Both the railcar and motor truck in-motion scales can be built with length of bridges and weighing capacity, as required by the end-users.

Principle of operation:

The **AR-D4309** type weighing indicator records the signals coming from the load cells built into the scale, and evaluates the digital data; provides axle and wheel load, the weight of the wagons and train, the moving direction and speed, recognizes the wagon type and qualifies the weighing.

Advantages:

- SW calibration and settings
- Weighing identification, log and recall according to the ISO9000 standard
- Automatic static/dynamic mode change
- Automatic wagon type recognition
- High level self diagnostics
- Local and remote operation
- Intranet/OpenVPN network

Műszaki adatok / Technical data

Pontossági osztály / Accuracy class	III (NAWI, EN 45501)
Pontossági osztály / Accuracy class	0.2, 0.5, 1.0, 2.0 (MID-AWI, OIML R106)
Hitelesítési osztásérték száma / Max. number of verification scale intervals	$n_{ind} \leq 3000e$
Tárazási tartomány / Tare range	$T \leq \text{Max } 100\%$
Működési hőmérséklet tartomány / Operating temperature range	$T_{min}/T_{max}: -10\text{ °C} / +35\text{ °C}$
Tárolási hőmérséklet tartomány / Storage temperature range	$T_{min}/T_{max}: -10\text{ °C} / +70\text{ °C}$
Működési páratartalom / Operating relative humidity	0-95% non condensing
Tápfeszültség / Supply voltage	230 VAC, +10% -15% 50 Hz
Teljesítmény felvétel / Power requirement	300 VA Max
Biztosítók / Fuses	230VAC: 2x 1,5A, 250T, 12VDC: 1x 0,4A, 250T
Mérlegcella táplálás / LC excitation	$\pm 5 \pm 0,5\text{ VDC}$, 2x 350Ω/CH, Max. 28x350Ω
Bemeneti csatornák / Input channels	12 független csatorna / 12 independent channels
Bemeneti feszültségtartomány / Input voltage range	-1mV ÷ 23mV
Bemeneti érzékenység / Input sensitivity	0,3 μV/d
A/D mintavételi sebesség / A/D sampling rate	2 kHz / channel
Befoglaló méretek és tömeg / Dimensions and weight	340x210x260 mm, 8.5 kg
Üzem módok / Operation modes	Normál (statikus és dinamikus mérés), Beállítás / Normal (weighing static and in-motion), Set-up
Tömegkijelző / Weight display	14 mm, 14 segments VFD, 7 char. and symbols
Üzenetkijelző / Secondary display	6 mm, 5 x 7 segment VFD 2x20 char.
Állapot kijelző / Status display	7 db piros LED / 7 pcs red LED
Billentyűzet / Keys	15 db membrán lemez / 15 pcs membrane
Program / Software	SW_D4309
Funkciók / Functions	on-line mérésadatgyűjtés, kiértékelés, naplózás, könyvtárkezelés, RAS / on-line datacollection, evaluation, logging, RAS
Számítógép felület / PC Interface	Ethernet, USB 2.0, Rs232

Típusválaszték / Variants

D4309 [code]	Load Cell [pc]	Module [pc]
R4C1M	4	1
R8C2M	8	2
R12C3M	12	3
M6C1M	6	1
M8C2M	8	2

Hátlap / Back Cover

