



## Description

The **AR-D8203** type weighing-in-motion terminal is a perfect solution for station line (LSWIM  $v < 20 \text{ km/h}$ ) or main line (HSWIM  $v < 120 \text{ km/h}$ ) in motion railway scales, for in motion truck scales (LSWIM  $v < 20 \text{ km/h}$ ) and for static industrial scales.

The terminal - depending on its version – is able to drive

- Wheastone Bridge (WB) type analog Load Cells (LC)
- Digital LCs with serial (RS) Interface
- Digital LCs with CAN (CN) bus Interface

either applied in bridge type or multy LC type sensore area.

The **AR-D8203** 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-D8203** 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).

## Principle of operation:

The **AR-D8203** type weighing inducator 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
- 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	$T_{min}/T_{max}: -10\text{ °C} / +40\text{ °C}$
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	9,2-18 VDC
Teljesítmény felvétel / Power requirement	70 W Max
Védelem / Protections	Beépített rövidzár, túlterhelés és túlfeszültség védelem / Built in Short circuit, Overload and Over voltage protection
Bemeneti jel ; csatornák száma / Input signal ; No of channels	(WB) ; 2 CH (RS) ; 2 CH, 8 LC/CH (CN) ; 4 CH, 8 LC/CH (RW) ; 8 CH (CW) ; 4 CH, 8 LC/CH
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	7 digits, A, B, A+B modul
Kijelző / Display	5.0" LCD, 800(RGB) x 480, touch
Kijelző mérete / Display size	108 x 64 mm
Billentyűzet / Keys	3 db membrán lemez / 3 pcs membrane
Program / Software	SW_D8203
Funkciók / Functions	on-line mérésadatgyűjtés, kiértékelés, naplózás, könyvtárkezelés, RAS / on-line datacollection, evaluation, logging, RAS
Számítógép felület / PC Interface	Ethernet, USB 2.0

#### Típusválaszték / Variants

D8203	Cella / LC	Átalakító / Converter
WB	WB	-
RS	RS	-
RW	WB	WB/RS
CN	CN	-
CW	WB	WB/CN

#### Hátlap / Back Cover

