

WEIGHING SOLUTIONS
FOR ATEX
HAZARDOUS AREAS



WEIGHING IN HAZARDOUS AREAS

ATEX

Dini Argeo is a company specializing in the design and production of scales and weighing systems, well-established in the world market for its quality and reliability.

The weighing solutions offered by Dini Argeo cover all industrial weighing applications: from counting pieces to automatic dosages, from logistics weighing (pallet truck scales, palletweighers, weighing forks for lift trucks, suspended crane scales) to labelling, from checking production lines to vehicle weighing.

Dini Argeo also offers a wide range of interfaces and accessories guaranteeing the maximum connectivity and flexibility of use.

The products, besides conforming to the quality standards recognised at an international level, are submitted to the best independent certification laboratories, accredited at a European level, in order to guarantee the maximum quality to the customer.

Dini Argeo exports to over 70 countries around the world and offers qualified and specialised technical personnel.

To obtain further information regarding our products, do not hesitate to contact us or visit the www.diniargeo.com web site.



Dini Argeo has obtained the Quality Management System certification according to the UNI EN ISO 9001: 2008 for the design, manufacture and after sales service in respect of measuring instruments, scales and weighing systems, components and software.



Dini Argeo is an ATEX notified company, in accordance with the 94/9/CE (Annex IV) Directive, since 20/04/2016 with 2014/34/UE directive and therefore authorised to produce and market equipment marked by Ex-symbol intended for use in potentially explosive atmospheres.



Dini Argeo produces approved or approvable instruments for a legal-for-trade use following the European regulation EN 45501 and the directive 2014/31/EU.

The metrological marking indicates that the instrument is covered by a type approval certificate, released by an european notified body, that validates the idoneity for a legal use. This approval is fundamental for all the instrument legal-for-trade uses, in relationship with third parties.



Dini Argeo produces instruments in compliance with the requirements laid down by the recommendations of the International Organization of Legal Metrology (OIML):

- Load cells approved to OIML R60
- Non-automatic weighing instruments approved to OIML R76
- OIML R134 approved dynamic weighers for vehicle transiting at a low speed.
- OIML R51 approved "start/stop" automatic catchweigher on belt conveyors.
- Gravimetric filling instruments approved to OIML R61.

THE DINI ARGEO ATEX SOLUTIONS

Dini Argeo s.r.l offers weighing solutions for hazardous environments classified by the ATEX 99/92/CE directives.

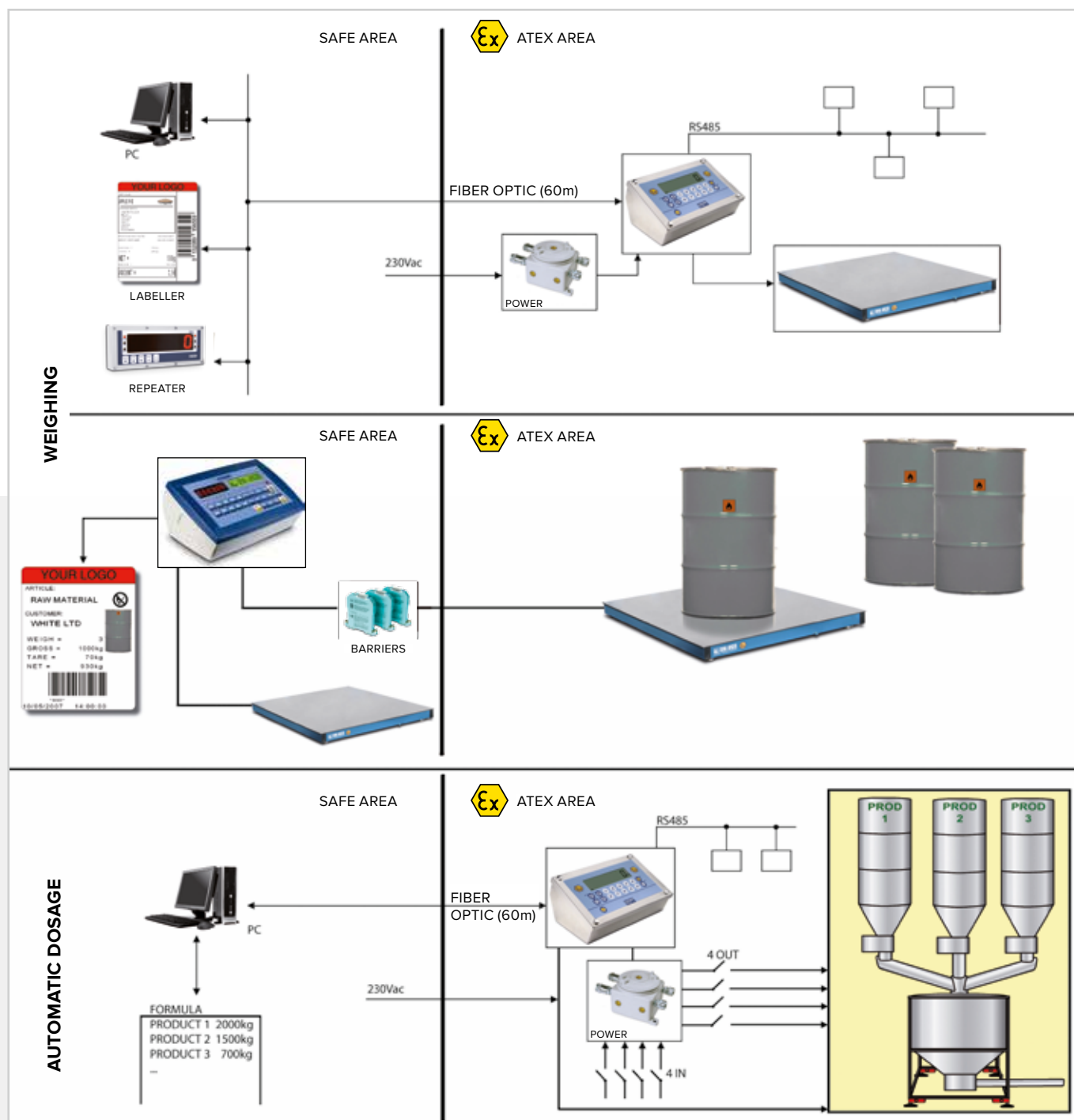
From the design of the electronic boards to the production of indicators, load cells, platforms, pallet truck scales,

crane scales, and accessories, Dini Argeo srl offers a wide range of devices for ATEX zones.

Dini Argeo is also able to supply a certification or declaration of conformity of the whole system, guaranteeing to the

customer the safety of the purchased system and at the same time supplying a complete service in order to speed up the development or installation time.

EXAMPLES OF SOLUTIONS:



PRODUCT SUMMARY TABLE

			ZONE						
			GASES			DUSTS			
			II 1G (Zone 0)	II 2G (Zone 1)	II 3G (Zone 2)	II 1D (Zone 20)	II 2D (Zone 21)	II 3D (Zone 22)	
PRODUCT	TYPE	PROTECTION DEGREE							
MCWX2GD MCWATEX2GD	CRANE SCALE	II 2GD IIC T4 T197°C X		✓	✓			✓	✓
TPWX2GD TPWX2GDI	PALLET TRUCK	II 2GD IIB T4 T197°C X		✓	✓			✓	✓
TPWX3GD TPWX3GDI	PALLET TRUCK	II 3GD IIC T6 T130°C X			✓				✓
DFWATEX2GD	INDICATOR	II 2G Ex ib IIC T4 Gb II 2D Ex tb IIIC T197°C Db IP65		✓	✓			✓	✓
DFWATEX2GDF	INDICATOR	II 2G Ex ib IIC T4 Gb II 2D Ex tb IIIC T197°C Db IP65		✓	✓			✓	✓
3590EXTxxBC3GD	INDICATOR	II 3G Ex nR IIC T6 Gc X II 3D Ex tc IIIC T135°C Dc IP68 X			✓				✓
3590EGTC3GD	INDICATOR	II 3G Ex nR IIB T6 Gc X II 3D Ex tc IIIC T135°C Dc IP68 X			✓				✓
DGT603GD	INDICATOR	II 3G Ex nR IIC T6 Gc X II 3D Ex tc IIIC T130°C Dc IP68 X			✓				✓
DFWATEX3GD	INDICATOR	II 3G Ex nR IIC T6 Gc X II 3D Ex tc IIIC T130°C Dc IP68 X			✓				✓
DFWFKI3GD	INDICATOR	II 3G Ex nR IIC T6 Gc X II 3D Ex tc IIIC T130°C Dc IP68 X			✓				✓
DFWATEX3D	INDICATOR	II 3D Ex tc IIIC T130°C Dc IP65 X							✓
PW200XRD	POWER SUPPLIER	II (2)/2 G [Ex ib]/Ex d IIC T4 Gb II (2)/2 D [Ex ib]/Ex tb IIIC T140°C Db		✓	✓			✓	✓
DFWBP76ATEXD	RECHARGEABLE BATTERY	II 2G Ex ib IIC T4 Gb II 2D Ex tb IIIC T197°C Db IP65		✓	✓			✓	✓
BP6ESTATEX3GD	RECHARGEABLE BATTERY	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T130°C Dc IP65 X			✓				✓
OBRF3GD	RADIO FREQUENCY MODULE	II 3G Ex nA IIC T6 Gc X II 3D Ex tc IIIC T125°C Dc IP66 X			✓				✓
OBWIFI3GD	WIFI MODULE	II 3G Ex nA IIB T6 Gc X II 3D Ex tc IIIC T125°C Dc IP66 X			✓				✓
PLATFORMS	WEIGHING MODULE	II 2GD c IIC T6 85°C		✓	✓			✓	✓
LOAD CELLS	LOAD RECEPTORS	II 1G Ex ia IIC T6 (Ta -20÷+40°C) TX (Ta -20÷+65°C) Ga II 1D Ex ta IIIC TX°C (Ta -20÷+40°C) TX°C (Ta -20÷+65°C) Da IP65	✓	✓	✓	✓	✓	✓	✓
ZBPW ZBSG ZBSN	ZENER BARRIERS	II (1) GD [Ex ia Ga] IIC [Ex ia Da] IIIC	✓	✓	✓	✓	✓	✓	✓
KMB4	BOX WITH ZENER BARRIERS	II 3G Ex nA [ia Ga] IIC T4 Gc II 3D Ex tb [ia Da] IIIC T130°C Dc IP65			✓				
JB4QAI	JUNCTION BOX	II 2G Ex ib IIC T6 Gb II 2D Ex tb IIIC T115°C Db IP65		✓	✓			✓	✓

ELECTRONIC CRANE SCALES

These are quickly installed on the lifting system (cranes, crane bridges, etc.). The whole structure is in steel guaranteeing the maximum resistance to accidental knocks. Great resistance to overloads. Very little distance between upper ring and lower hook, in order to not reduce the load capacity of the lifting system.



MCWX2GD



INTRINSICALLY SAFE
RECHARGEABLE BATTERY

II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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PROTECTION:	II 2G IIC T4 T197°C X
CAPACITY:	From 600 to 6000 kg.
DIVISION:	From 0,2 to 2 kg.
PRECISION:	± 0.05 % of the maximum capacity.
BATTERY LIFE:	About 160 h/4800 weighs.
STRUCTURE:	Stainless steel.
FUNCTIONS:	Simple weighing, totalisation, formula weighing, counting, weight hold function on the display.
ELECTRONICS:	Intrinsically safe.



MCWATEX2GD



INTRINSICALLY SAFE
RECHARGEABLE BATTERY




II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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PROTECTION:	II 2G IIC T4 T197°C X
CAPACITY:	From 15000 to 35000 kg.
DIVISION:	From 10 to 20 kg.
PRECISION:	± 0.05 % of the maximum capacity.
BATTERY LIFE:	About 160 h/4800 weighs.
STRUCTURE:	Oven-fire painted steel.
FUNCTIONS:	Simple weighing, totalisation, formula weighing, counting, weight hold function on the display.
ELECTRONICS:	Intrinsically safe.

PALLET TRUCK SCALES

For weighing quickly, directly where it is necessary. The TPWX pallet truck scales are precise, sturdy and easy to use. The dimensions are standardised for EUROPALLETS. The indication of the weight is clear and easy to read. The electronic parts are protected from knocks, sprays, and dust.



TPWX2GD	II 2G	II 3G	II 2D	II 3D
	(Zone 1)	(Zone 2)	(Zone 21)	(Zone 22)
	PROTECTION:  II 2GD IIB T4 T197°C X			
	CAPACITY: From 500 to 2500 kg.			
	DIVISION: From 0,2 to 1 kg.			
	PRECISION: ± 0.05 % of the maximum capacity.			
	BATTERY LIFE: About 150 h/4800 weighs.			
	STRUCTURE: Oven-fire painted steel, stainless steel indicator.			
	FUNCTIONS: Simple weighing, totalisation, formula weighing, counting, weight hold function on the display.			
ELECTRONICS: Intrinsically safe.				
				

TPWX2GDI	II 2G	II 3G	II 2D	II 3D
	(Zone 1)	(Zone 2)	(Zone 21)	(Zone 22)
	PROTECTION:  II 2GD IIB T4 T197°C X			
	CAPACITY: From 500 to 2000 kg.			
	DIVISION: From 0,2 to 1 kg			
	PRECISION: ± 0.05 % of the maximum capacity.			
	BATTERY LIFE: About 150 h/4800 weighs.			
	STRUCTURE: Completely in STAINLESS steel.			
	FUNCTIONS: Simple weighing, totalisation, formula weighing, counting, weight hold function on the display.			
ELECTRONICS: Intrinsically safe.				
				

TPWX3GD

II 3G
(Zone 2)

II 3D
(Zone 22)



RECHARGEABLE BATTERY



PROTECTION:  II 3GD IIC T6 T130°C X

CAPACITY: From 500 to 2000 kg.

DIVISION: From 0,2 to 1 kg.
(special capacities and divisions upon request)

PRECISION: ± 0.05 % of the maximum capacity.

BATTERY LIFE: About 40 h/1200 weighs.

STRUCTURE: Oven-fire painted steel, stainless steel indicator.

FUNCTIONS: Simple weighing, totalisation, formula weighing, counting, tolerance check, percentage weighing.



SEE PAGE 13

TPWX3GDI

II 3G
(Zone 2)

II 3D
(Zone 22)



RECHARGEABLE BATTERY



PROTECTION:  II 3GD IIC T6 T130°C X

CAPACITY: From 500 to 2000 kg.

DIVISION: From 0,2 to 1 kg.
(special capacities and divisions upon request)

PRECISION: ± 0.05 % of the maximum capacity.

BATTERY LIFE: About 40 h/1200 weighs.

STRUCTURE: Completely in STAINLESS steel.

FUNCTIONS: Simple weighing, totalisation, formula weighing, counting, weight hold function on the display.



SEE PAGE 13

WEIGHT INDICATORS

Suitable for the creation of weighing and dosage systems in hazardous areas, offering a wide range of functioning modes and interfaces for communicating with external devices, as well as a great versatility of use.



DFWATEX2GD	II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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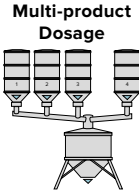
Multifunction weighing



PROTECTION:	II 2G Ex ib IIC T4 Gb for GASES II 2D Ex tb IIIC T197°C Db IP65 for DUSTS
FUNCTIONS:	Simple dosages (setpoint), totalisation, formula weighing, counting, input / output weighing, data transmission.
INPUT / OUTPUT:	4 inputs + 4 outputs (all programmable).
DATA TRANSMISSION:	Through RS485 or fiber optics, up to 60m (longer distances available upon request). Alibi memory for approved weight transmission.
POWER SUPPLY:	10,5 Vdc with PW200XRD intrinsically safe power adapter or DFWBP76ATEXD intrinsically safe external rechargeable battery.
CELL INPUTS:	4 independent inputs, for managing a single weighing system or for the equalisation of 4 load cells.
CONNECTABLE CELLS:	Up to four 350 Ohm load cells.
ELECTRONICS:	Intrinsically safe.

DFWATEX2GDF	II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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Weighing and dosage

PROTECTION:	II 2G Ex ib IIC T4 Gb for GASES II 2D Ex tb IIIC T197°C Db IP65 for DUSTS
FUNCTIONS:	Single/multi-product in loading or unloading, 16 products/15 formulas (multi-product mode) or 40 formulas (single-product mode).
INPUT / OUTPUT:	4 inputs + 4 outputs (all programmable).
DATA TRANSMISSION:	Through RS485 or fiber optics, up to 60m (longer distances available upon request). Alibi memory for approved weight transmission.
POWER SUPPLY:	10,5 Vdc with PW200XRD intrinsically safe power adapter.
CELL INPUTS:	4 independent inputs, for managing a single weighing system or for the equalisation of 4 load cells.
CONNECTABLE CELLS:	Up to four 350 Ohm load cells.
ELECTRONICS:	Intrinsically safe.

3590EGT and 3590EXT

II 3G
(Zone 2)

II 3D
(Zone 22)

Advanced industrial applications

For industrial applications in which, in addition to the simple weighing, one needs the advanced management of the databases, totals and printouts. Particularly suitable for interfacing with PC software.



3590EGT



3590EXT

PROTECTION:

- 3590EGT**
 II 3G Ex nR IIB T6 Gc X for GASES
 II 3D Ex tc IIIC T135°C Dc IP68 X for DUSTS
3590EXT
 II 3G Ex nR IIC T6 Gc X for GASES
 II 3D Ex tc IIIC T135°C Dc IP68 X for DUSTS

DISPLAY:

Backlit graphic display with TOUCH SCREEN technology and multilanguage software, in the 3590EGT model.
 Red LED display for clear visualization of the weight and LCD display for visualizing the user messages, in the 3590EXT model.

PROGRAMS:

"AF01" Totalisation and simple dosage.
 "AF03" Input / output weighing.
 "BATCH1" Single-product dosage.
 "BATCH" Multi-product dosage.
 Statistical check upon request.

INPUT / OUTPUT:

Up to 8 inputs and 16 outputs (all programmable).
 16 bit programmable analogue output:
 0...10 Vdc, 0...20 mA and 4...20 mA.

DATA TRANSMISSION:

RS232 / RS485 / Ethernet serial ports for connection to printer (in safe area), PC or PLC.
 Profibus, to install in safe area.
 Alibi memory for approved weight transmission.

POWER SUPPLY:

110-240Vac or external rechargeable battery (upon request).

CELL INPUTS:

4 independent inputs, for managing up to 4 weighing systems or for the equalisation of 4 load cells.

CONNECTABLE CELLS:

Up to sixteen 350 Ohm load cells.



SEE PAGE 13

DGT603GD

II 3G
(Zone 2)

II 3D
(Zone 22)

Multifunction weighing / Weight repeater



PROTECTION:

- II 3G Ex nR IIC T6 Gc X for GASES
 II 3D Ex tc IIIC T130°C Dc IP68 X for DUSTS

DISPLAY:

Maxi 6-digit 60mm display made up of highly efficient SMT LEDs, clearly visible from a distance and from all angles. Brightness: 750mdc. Brightness intensity adjustable directly through the software.

FUNCTIONS:

Simple dosages (setpoint), totalisation, formula weighing, counting, input / output weighing, data transmission.
 Weight repeater with configuration of the input string.

INPUT / OUTPUT:

2 inputs + 2 outputs (all programmable). 16 bit, programmable analogue output: 0...10 Vdc, 0...20 mA and 4...20 mA.

DATA TRANSMISSION:

RS232 / Ethernet and RS485 ports for connection to printer, or other external units (in safe area), PC.
 Integrated PROFIBUS.
 Available Modbus RTU protocol.
 Alibi memory for approved weight transmission.

POWER SUPPLY:

110-240Vac

CELL INPUTS:

4 independent inputs, for managing up to 4 weighing systems or for the equalisation of 4 load cells.

CONNECTABLE CELLS:

Up to sixteen 350 Ohm load cells.



SEE PAGE 13

DFWATEX3D and DFWATEX3GD

II 3G
(Zone 2)

II 3D
(Zone 22)

Weighing in general / Weight repeater



DFWATEX3D PROTECTION:

II 3D Ex tc IIIC T130°C Dc IP65 X for DUSTS

DFWATEX3GD PROTECTION:

II 3G Ex nR IIC T6 Gc X for GASES
 II 3D Ex tc IIIC T130°C Dc IP68 X for DUSTS

FUNCTIONS:

Simple dosages (setpoint), totalisation, formula weighing, counting, tolerance check, percentage weighing, input / output weighing, data transmission.
Weight repeater with configuration of the input string.

INPUT / OUTPUT:

4 inputs + 4 outputs (all programmable). 16 bit programmable analogue output: 0...10 Vdc, 0...20 mA and 4...20 mA.

DATA TRANSMISSION:

RS232 / RS485 / Ethernet for connection to PC. RS232 for data transmission to printer or labeller in safe area. Alibi memory for approved weight transmission.

POWER SUPPLY:

110-240Vac and rechargeable battery (internal for DFWATEX3D and external, upon request, for DFWATEX3GD).

CELL INPUTS:

4 independent inputs, for managing a single weighing system or for the equalisation of 4 load cells.

CONNECTABLE CELLS:

Up to eight 350 Ohm load cells.



SEE PAGE 13

DFWLK13GD

II 3G
(Zone 2)

II 3D
(Zone 22)

Weighing in general / Weight repeater



PROTECTION:

II 3G Ex nR IIC T6 Gc X for GASES
 II 3D Ex tc IIIC T130°C Dc IP68 X for DUSTS

FUNCTIONS:

Totalisation, formula weighing, counting, tolerance check, percentage weighing, input / output weighing, data transmission. Weight repeater with configuration of the input string.

DATA TRANSMISSION:

RS232 / RS485 for connection to PC. RS232 for data transmission to printer or labeller in safe area. Alibi memory for approved weight transmission.

POWER SUPPLY:

110-240Vac or external rechargeable battery (upon request).

CELL INPUTS:

4 independent inputs, for managing a single weighing system or for the equalisation of 4 load cells.

CONNECTABLE CELLS:

Up to eight 350 Ohm load cells.



SEE PAGE 13

PLATFORMS AND LOAD CELLS

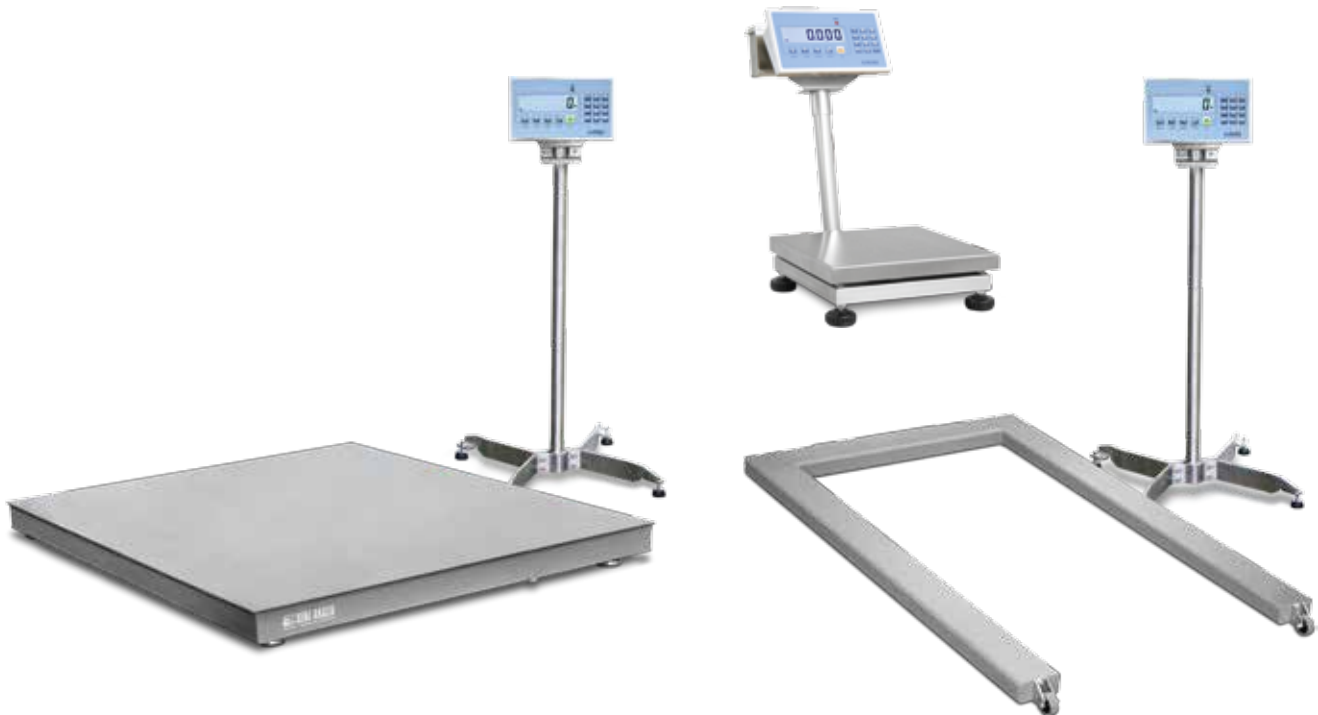


WEIGHING PLATFORMS

Dini Argeo offers a complete range of bench or floor weighing platforms, designed for use in hazardous areas. Capacity from 1,5 kg to 10 t, divisions starting from 0,05 g.

II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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PROTECTION: II 2GD c IIC T6 85°C



LOAD CELLS

The range of load cells certified for hazardous environments allows you to create weighing systems for applications which range from dosing to logistics, from lifting to high precision. The assembly KITS are also available, simplifying the installation of the cell; these are also certified for ATEX zones.

II 1G (Zone 0)	II 2G (Zone 1)	II 3G (Zone 2)	II 1D (Zone 20)	II 2D (Zone 21)	II 3D (Zone 22)
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LOAD CELLS II 1G Ex ia IIC T6 (Ta -20÷+40°C)
 PROTECTION: TX (Ta -20÷+65°C) Ga for GASES
 II 1D Ex ta IIIC TX°C (Ta -20÷+40°C)
 TX°C (Ta -20÷+65°C) Da IP65 for DUSTS

CAPACITY: From 3 kg to 100 t.

KIT II 2GD c IIC T6 85°C
 PROTECTION:



Individually tested one by one and supplied with ATEX II 1GD Certificate (CCATEX)



ACCESSORIES

PW200XRD

Intrinsically safe power supplier for "2GD" indicators

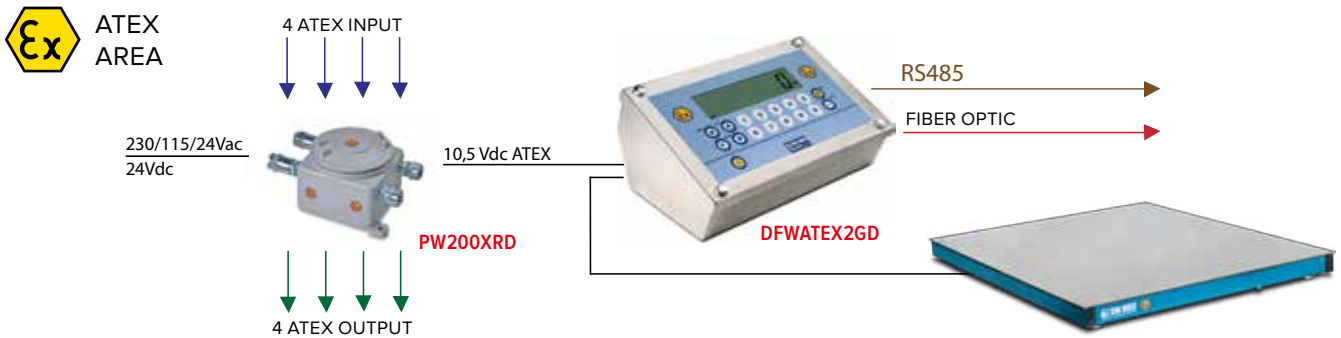
For powering your weighing system with an intrinsically safe device which guarantees the maximum safety inside the hazardous area.



II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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PROTECTION:	<p> II (2)/2 G [Ex ib]/Ex d IIC T4 Gb for GASES</p> <p> II (2)/2 D [Ex ib]/Ex tb IIIC T140°C Db for DUSTS</p>
OUTPUT VOLTAGE:	10,5 Vdc, for DFWATEX2GD / DFWATEX2GDF indicator.
INPUT VOLTAGE:	24 Vdc, 24 Vac, 115 Vac or 230 Vac.
ELECTRONICS:	Intrinsically safe.

APPLICATION EXAMPLE



DFWBP76ATEXD

External rechargeable battery

Supplied for mobile weighing systems or for 1 and 21 zones where there is no possibility to power the scale with a mains voltage.



II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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PROTECTION:	<p> II 2G Ex ib IIC T4 Gb for GASES</p> <p> II 2D Ex tb IIIC T197°C Db IP65 for DUSTS</p>
OUTPUT VOLTAGE:	9,6 Vdc.
OUTPUT CURRENT:	7,6 Ah.
BATTERY LIFE:	Up to 160 h (depending on the system configuration).
ELECTRONICS:	Intrinsically safe.

BP6ESTATEX3GD

External rechargeable battery

For 2 and 22 zones



II 3G (Zone 2)	II 3D (Zone 22)
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PROTECTION:	<p> II 3G Ex nA IIC T6 Gc X for GASES</p> <p> II 3D Ex tc IIIC T130°C Dc IP65 X for DUSTS</p>
OUTPUT VOLTAGE:	6 Vdc.
OUTPUT CURRENT:	12 Ah.
BATTERY LIFE:	Up to 100 h (depending on the system configuration).

ZB

II 1G (Zone 0)	II 2G (Zone 1)	II 3G (Zone 2)	II 1D (Zone 20)	II 2D (Zone 21)	II 3D (Zone 22)
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Passive safety Zener barriers

Intrinsic protection barriers to use for carrying the signals in a safe area from a hazardous zone.



PROTECTION

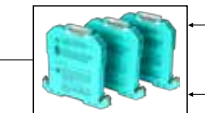
SINGLE BARRIER: II (1) GD [Ex ia Ga] IIC [Ex ia Da] IIIC

PROTECTION BOX: II 3G Ex nA [ia Ga] IIC T4 Gc for GASES
 II 3D Ex tb [ia Da] IIIC T130°C Dc IP65 for DUSTS

APPLICATION EXAMPLE

SAFE AREA

Non ATEX indicator



Dini Argeo ATEX Zener barriers



ATEX AREA



ATEX platform



ATEX load cells

JBQAI

II 2G (Zone 1)	II 3G (Zone 2)	II 2D (Zone 21)	II 3D (Zone 22)
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Equalised junction box

To be used for the creation of load receptors for 1, 2, 3, or 4 load cells.



PROTECTION: II 2G Ex ib IIC T6 Gb for GASES
 II 2D Ex tb IIIC T115°C Db IP65 for DUSTS

CASE: IP66 stainless steel.

ELECTRONICS: Intrinsically safe.

OBRF3GD / OBWIFI3GD

II 3G (Zone 2)	II 3D (Zone 22)
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Radio frequency module / WIFI

They can be applied to both bench/floor scales as well as mobile scales, such as pallet truck scales or pallet weighing scales, and they allow you to transmit data at a very long distance or directly to the company's wireless network.



PROTECTION OBRF3GD: II 3G Ex nA IIC T6 Gc X for GASES
 II 3D Ex tc IIIC T125°C Dc IP66 X for DUSTS

PROTECTION OBWIFI3GD: II 3G Ex nA IIB T6 Gc X for GASES
 II 3D Ex tc IIIC T125°C Dc IP66 X for DUSTS

CASE: IP66 ABS

APPLICATION EXAMPLE 1

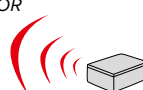


ATEX AREA



ATEX 3GD repeater with radio module

70m INDOOR and 150m OUTDOOR



ATEX 3GD indicator with radio module



ATEX platform

SAFE AREA



WEIMONITOR



Non ATEX radio module

APPLICATION EXAMPLE 2



ATEX AREA

GROSS, TARE, NET, ID1, ID2...



ATEX 3GD pallet truck scale with radio module

ANALYSIS OF THE SYSTEM, CERTIFICATES, AND DECLARATIONS OF CONFORMITY

Dini Argeo offers also a free pre-sales service with the purpose of creating a custom-made price estimate according to the customer's needs. Once one has identified the classification of the hazardous area in which the

scale will be installed as well as the desired weighing application, our authorized technical personnel will suggest the best solution for satisfying your requirements with our products. Each single scale or component for wei-

ghing is accompanied by the relative certificate or declaration of conformity, as a guarantee of safety. Each weighing system can also be supplied with a relative declaration of conformity of the whole.

THE MAIN AVAILABLE DECLARATIONS OF CONFORMITY ARE:

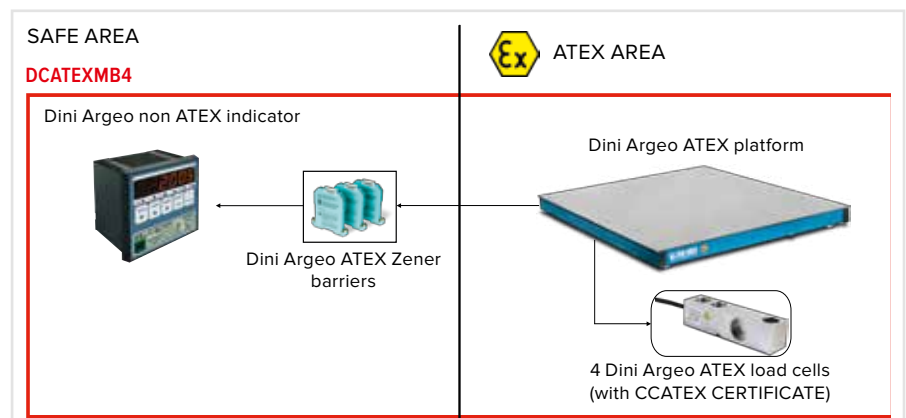
DCATEX2GD and DCATEX3GD (for gases and dusts)

ATEX declaration of conformity of the whole system for a weighing system completely installed in a hazardous area. An example of a weighing system is a weight indicator powered by battery or power supplier, connected to a junction box with 4 load cells or to a weighing platform.



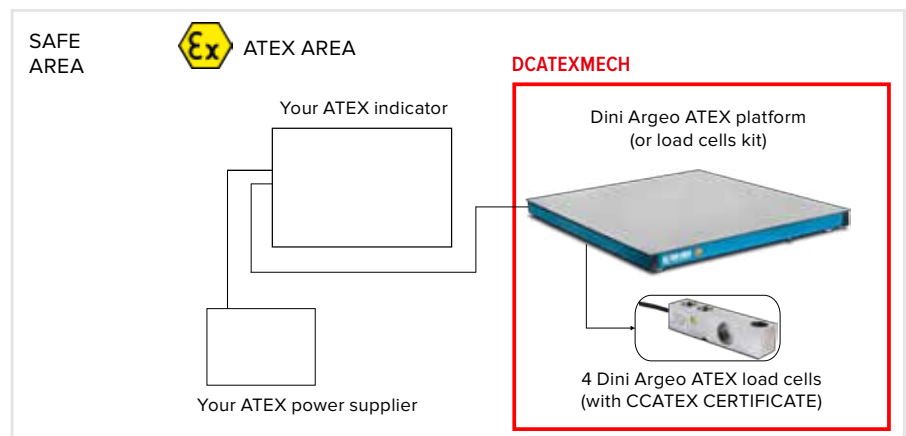
DCATEXMB4 (for gases and dusts)

ATEX declaration of conformity of the whole system which allows you to install the platform or the load cells in a hazardous area and the weight indicator in the safe area, with the aid of the ZENER barriers.



DCATEXMECH (for gases and dusts)

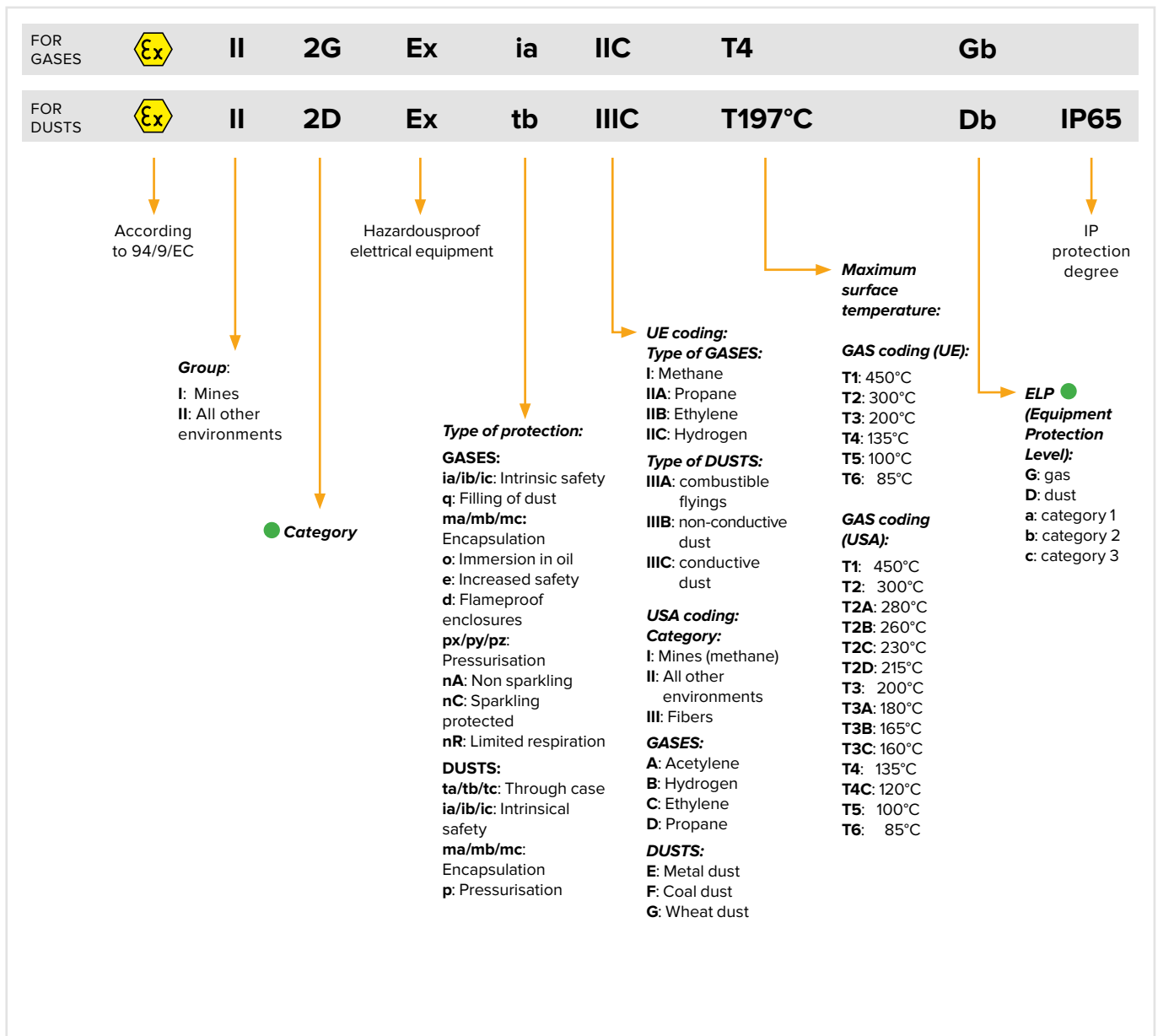
ATEX declaration of conformity of the whole system which allows to use the mechanical structure in the hazardous area. An example of a mechanical structure can be a KIT for installing a cell with a relative ATEX load cell or a platform, with a junction box and 4 ATEX load cells. This certification is useful, when, for example one purchases from Dini Argeo only the load receptor (i.e. the platform).



CCATEX (for gases and dusts)

ATEX certification of conformity for each single load cell intended for use in hazardous areas.

DECODING EXAMPLE OF AN ATEX MARKING



● Instrument category:	ZONE	Atmosphere G= gases D= dusts	EPL
CATEGORY 1 Very high protection, for areas which are permanently or highly probable to be hazardous.	0 20	G D	Ga Da
CATEGORY 2 High protection, for areas that are probably hazardous.	1 21	G D	Gb Db
CATEGORY 3 Normal protection, for areas which are unlikely to be hazardous.	2 22	G D	Gc Dc

NOTE: in the marking, eventual brackets (...) or [...] indicate an associated electrical apparatus.

The information in this document is approximate and can be subject to variations without prior notice by Dini Argeo, with respect of the norms in force.



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DINI ARGEO
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Italy



A RICE LAKE WEIGHING SYSTEMS COMPANY

HEAD OFFICE

Via Della Fisica, 20
41042 Spezzano di Fiorano Modena • Italy
Tel. +39.0536 843418 Fax. +39.0536 843521
info@diniargeo.com

SERVICE ASSISTANCE

Via Dell' Elettronica, 15
41042 Spezzano di Fiorano Modena • Italy
Tel. +39.0536 921784 Fax. +39.0536 926654
service@diniargeo.com

SALES AND TECHNICAL ASSISTANCE SERVICE