













INFORMATION ON ATEX PRODUCTS SUPPLIED BY GICAM



Gicam is able to supply load cells compliant with the European Directive 2014/34 / EU (relating to equipment and protection systems intended for use in potentially explosive atmospheres) belonging to the following families:

- Compression load cells
- Shear beam load cells
- Central load cells
- Double shear beam load cells and load pins
- Tension/compression load cells

The following diagram provides important information on the type of ATEX marking, the method of protection and the environmental conditions of use.

Family of load cells	Marking	Mode of protection	EU examination certificate type	Ambient temperature
Shear beam load cell TS1, TS2, TS3, TS4, TS5, TS5/F, TS6, TS8, TS14, TS15, TS16 TS1-HH, TS2-HH, TS3-HH, TS4-HH, TS5-HH, TS5/F-HH, TS6-HH, TS8-HH, TS14-HH, TS15-HH, TS16-HH	Gas, Vapors, Mists  II1G Ex ia IIC T6...T3 Ga (AISI BODY) II2G Ex ib IIC T6...T3 Ga (ALUMINUM BODY)	Intrinsic safety	IMQ 19 ATEX 035X	-20°C/-30°C ≤Tamb≤+130°C (T3, T140°C) -20°C/-30°C ≤Tamb≤+120°C (T4, T130°C)
	Powders  II1D Ex ia IIIC T75°C...T140°C Da (AISI BODY) II2D Ex ib IIIC T75°C...T140°C Da (ALUMINUM BODY)	Intrinsic safety	IMQ 19 ATEX 035X	-20°C/-30°C ≤Tamb≤+85°C (T5, T95°C) -20°C/-30°C ≤Tamb≤+65°C (T6, T75°C)
Compression load cell ME1, ME2, ME3, ME4, ME5, ME8, MEDP, COL1, COL2, COL3, OT1, TOR, TOR36 ME1-HH, ME2-HH, ME3-HH, ME4-HH, ME5-HH, ME8-HH, MEDP-HH, COL1-HH, COL2-HH, COL3-HH, OT1-HH, TOR-HH, TOR36-HH	Gas, Vapors, Mists  II1G Ex ia IIC T6...T3 Ga	Intrinsic safety	IMQ 19 ATEX 036X	-20°C/-30°C ≤Tamb≤+130°C (T3, T140°C) -20°C/-30°C ≤Tamb≤+120°C (T4, T130°C)
	Powders  II1D Ex ia IIIC T75°C...T140°C Da	Intrinsic safety	IMQ 19 ATEX 036X	-20°C/-30°C ≤Tamb≤+85°C (T5, T95°C) -20°C/-30°C ≤Tamb≤+65°C (T6, T75°C)
Double shear beam load cell and load pins DT1, DT2, DT3, DT4, PE DT1-HH, DT2-HH, DT3-HH, DT4-HH, PE-HH	Gas, Vapors, Mists  II1G Ex ia IIC T6...T3 Ga (AISI BODY) II2G Ex ib IIC T6...T3 Ga (ALUMINUM BODY)	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+130°C (T3, T140°C) -20°C/-30°C ≤Tamb≤+120°C (T4, T130°C)
	Powders  II1D Ex ia IIIC T75°C...T140°C Da (AISI BODY) II2D Ex ib IIIC T75°C...T140°C Da (ALUMINUM BODY)	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+85°C (T5, T95°C) -20°C/-30°C ≤Tamb≤+65°C (T6, T75°C)
Off-center load cell CN1, CN2, PA1, TA1, TA2, TA3, TA4, TA5, TA6, TA7, TA9, TA10, TA11, TA12, TA26 CN1-HH, CN2-HH, PA1-HH, TA1-HH, TA2-HH, TA3-HH, TA4-HH, TA5-HH, TA6-HH, TA7-HH, TA9-HH, TA10-HH, TA11-HH, TA12-HH, TA26-HH	Gas, Vapors, Mists  II1G Ex ia IIC T6...T3 Ga (AISI BODY) II2G Ex ib IIC T6...T3 Ga (ALUMINUM BODY)	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+130°C (T3, T140°C) -20°C/-30°C ≤Tamb≤+120°C (T4, T130°C)
	Powders  II1D Ex ia IIIC T75°C...T140°C Da (AISI BODY) II2D Ex ib IIIC T75°C...T140°C Da (ALUMINUM BODY)	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+85°C (T5, T95°C) -20°C/-30°C ≤Tamb≤+65°C (T6, T75°C)
Universal load cell GD4, GD4GA, GD4PA, GD4PA1, GD5, ME8GE GD4-HH, GD4GA-HH, GD4PA-HH, GD4PA1-HH, GD5-HH, ME8GE-HH	Gas, Vapors, Mists  II1G Ex ia IIC T6...T3 Ga	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+130°C (T3, T140°C) -20°C/-30°C ≤Tamb≤+120°C (T4, T130°C)
	Powders  II1D Ex ia IIIC T75°C...T140°C Da	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+85°C (T5, T95°C) -20°C/-30°C ≤Tamb≤+65°C (T6, T75°C)

Family of load cells	Marking	Mode of protection	EU examination certificate type	Ambient temperature
Tension load cell AF1, AF2, AF3, AF4, AF5, AF6, AF10, AF22 AF1-HH, AF2-HH, AF3-HH, AF4-HH, AF5-HH, AF6-HH, AF10-HH, AF22-HH	Gas, Vapors, Mists			
	 II1G Ex ia IIC T6...T3 Ga	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+130°C (T3, T140°C)
	Powders			-20°C/-30°C ≤Tamb≤+120°C (T4, T130°C)
	 II1D Ex ia IIIC T75°C...T140°C Da	Intrinsic safety	IMQ 19 ATEX 037X	-20°C/-30°C ≤Tamb≤+85°C (T5, T95°C) -20°C/-30°C ≤Tamb≤+65°C (T6, T75°C)

Family of load cells	Marking	Mode of protection	EU examination certificate type	Ambient temperature
shear beam load cell TS1, TS2, TS3, TS4, TS5, TS5/F, TS6, TS8, TS14, TS15, TS16, TS16E, TS1-HH, TS2-HH, TS3-HH, TS4-HH, TS5-HH, TS5/F-HH, TS6-HH, TS8-HH, TS14-HH, TS15-HH, TS16-HH Compression load cell ME1, ME2, ME3, ME4, ME5, ME8, MEDP, COL1, COL2, COL3, OT1, TOR, TOR36 ME1-HH, ME2-HH, ME3-HH, ME4-HH, ME5-HH, ME8-HH, MEDP-HH, COL1-HH, COL2-HH, COL3-HH, OT1-HH, TOR-HH, TOR36-HH Universal load cell GD4, GD4GA, GD4PA, GD4PA1, GD5, GD4-HH, GD4GA-HH, GD4PA-HH, GD4PA1-HH, GD5-HH	Gas, Vapors, Mists			
	 II1G Ex ma IIC T6...T3 Ga (ALUMINUM BODY) II2G Ex mb IIC T6...T3 Gb (ALUMINUM BODY)	Dust tight constructions; encapsulation	BVI 20 ATEX 0033 X	-20°C/-30°C ≤Tamb≤+120°C (T3, T145°C)
	Powders			-20°C/-30°C ≤Tamb≤+110°C (T4, T135°C)
	 II2D Ex mb IIIC T85°C...T145°C Db (ALUMINUM BODY) II2D Ex tb IIIC T85°C...T145°C Db (ALUMINUM BODY)	Dust tight constructions; encapsulation	BVI 20 ATEX 0033 X	-20°C/-30°C ≤Tamb≤+75°C (T5, T100°C) -20°C/-30°C ≤Tamb≤+55°C (T6, T85°C)

The load cells produced by Gicam are group II equipment, that is intended to be used in surface plants and industry, therefore excluding mines.

These equipment belong to category 1 (if in AISI), indicating respectively environments with a high probability of explosive atmospheres occurring (1 - the equipment incorporates very high protection measures) or to category 2 (if in aluminum) respectively indicating environments in which during normal activities the formation of an explosive atmosphere is likely (2 - the equipment incorporates high protection measures).

With reference to the aforementioned categories, the cells are suitable for use in environments with risk of explosion due to both the presence of gases, vapors, mists (G) and the presence of combustible dusts (D).

The following table provides a non-exhaustive guide for the association between the equipment category and the installation area.

Category	Installation area
Gas, Vapors, Mists	
1 G	Zone 0 or Zone 1 or Zone 2
2 G	Zone 1 or Zone 2
3 G	Zone 2
Powders	
1 D	Zone 20 or Zone 21 or Zone 22
2 D	Zone 21 or Zone 22
3 D	Zone 22



s.r.l.
Sede operativa L. go C. Battisti, 9
Sede legale P.zza XI Febbraio, 2
22015 GRAVEDONA ED UNITI (CO)
C.Fisc./P.Iva 02425680135 – N° R.I. 2636/1999
☎ 0344 90063 - 📠 0344 89692 - ✉ info@gicamgra.com



Based on the constructive characteristics of the load cells produced by Gicam, they can be used in the manner provided for in Article 16 of the EN60079-14: 2014 standard, or relating to the specific conditions of installations of intrinsically safe equipment. An equipment associated with intrinsic safety is therefore always necessary.

We hereby trust that we have provided you with the appropriate information for choosing the product that meets your needs.

We remain available for any further need for additional clarification.

GICAM The management

The customer: _____

Declares to have received the present information.

Signature for acknowledgment: _____

Date: _____