

SLB615D

Load Cell

SLB615D



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1 Introduction

1.1 Instruction and Operation Manual for ATEX

This section covers only the ATEX-relevant aspects of the product.

Refer to SLB615D ATEX certificate DEKRA 14 ATEX0030. When load cells are considered in type of protection non-sparking Ex nA, they need to be fitted in an enclosure that complies with the equipment's of clause 6 of EN60079-15.

DEKRA 14 ATEX0030

II 3 G Ex nA IIC T6 Gc

II 3 D Ex tc IIIC T85°C Dc

U_{max} = 28V ; I_{max} = 50mA ; P_{max} = 0.5W / Load Cell

EN 60079-0 2012 ; EN 60079-15 2010 ; EN 60079-31 2009

1.2 Year of Manufacture

The year of manufacture is indicated by the last character of the load cell Serial Number (S/N) as follows:

The 3 rd and 4 th Character	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Year	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

2 Function of Equipment

The SLB615D can be used as category 3 equipment for hazardous Gas and hazardous Dust environments (Zone 2 and 22).

2.1 Details on Temperature Class / Coding

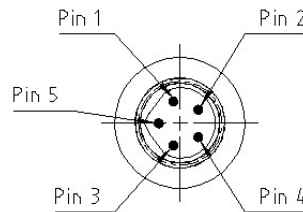
The following table shows the relationship between maximum total power P_i and maximum ambient temperature.

Temperature class/coding	U _{max} = 28 V, P _{max} = 0.5W / load cell
T6 (gas)	- 20°C ≤ T _a ≤ 55°C
T85°C (dust)	- 20°C ≤ T _a ≤ 55°C

2.2 Connection

Wire according to the following table:

Pin	Function
1	CGND
2	Communication CANH
3	Supply Voltage (28 max)
4	Communication CANL
5	GND



2.3 Information for Connections

- In an explosive atmosphere caused by air / dust mixtures, the loose ends of the cable shall be connected outside the hazardous area or in a suitable enclosure with a degree of protection of at least IP6X in accordance with EN 60529.
- Not following these instructions will jeopardize the explosion safety.

2.4 Load Cell Marking SLB615D

Other markings are as shown in the following labels which are attached to the product.



For Details on temperature class / coding please see section 2.1

Load cell variations include capacity, metrological performance, cable length, label and jacket material of polyurethane or FEP.

2.5 Special Conditions for Safe Use

None for SLB615D.

3 Commissioning and Installation

- a. This equipment can be used in zone 2 and 22.
- b. This equipment complies with protection class > IP68 / EN 60529.

4 Usage

The load cells are only allowed for applications in accordance with METTLER TOLEDO documentation. Misuse will cause the loss of warranty and manufacturer's responsibility.

- a. If the load cells are not powered from an intrinsically-safe circuit, it is required that the load cell cables be terminated outside of the hazardous area or be terminated in suitable junction boxes.
- b. If used in hazardous dust environment the dust layer on the load cell body must not exceed 5 mm in thickness.

5 Maintenance

Maintenance interventions on these load cells must be carried out by METTLER TOLEDO authorized personnel only.

6 Repair

This equipment is certified for use in hazardous locations, therefore no modifications are allowed. Repairs must only be performed by personnel specifically trained for repairs of this equipment.


7 Waste Disposal


The waste disposal of package and shipped parts must be done in accordance with the regulations of the country in which the equipment is installed.

8 Appendix

8.1 Declaration of Conformity

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<p>EN EU Declaration of Conformity DE EU-Konformitätserklärung ES Declaración de conformidad UE FR Déclaration de conformité UE IT Dichiarazione di conformità UE NL EU-conformiteitsverklaring PT Declaração de Conformidade UE SE EU-försäkran om överensstämmelse DK EU-overensstemmelseserklæring NO EU-samsvarserklæring FI EU:n vaatimustenmukaisuusvakuutus EE EL-i vastavusdeklaratsioon LT ES atitikties deklaracija</p>	<p>LV ES atbilstības deklarācija RU Декларация о соответствии ЕС PL UE Deklaracja zgodności CZ EU – Prohlášení o shodě HU EU megfeleléségi nyilatkozat TR AB Uyumluluk Beyanname BU Декларация за съответствие на EU HR Deklaracija o skladnosti EU-a RO Declarație UE de conformitate SK EÚ – Vyhlásenie o zhode SL EU-izjava o skladnosti GR Δήλωση συμμόρφωσης EE</p>	 <p>30095708C</p>
<p>Model/Type: SLB615D...</p> <p>Mettler-Toledo GmbH Im Langacher 44, 8606 Greifensee, Switzerland</p> <p>This declaration of conformity is issued under the sole responsibility of the manufacturer / Der Hersteller trägt die alleinige Verantwortung für die Ausstellung der Konformitätserklärung / La presente declaración de conformidad se publica bajo la responsabilidad exclusiva del fabricante / Cette déclaration de conformité est délivrée sous la seule responsabilité du fabricant / Questa dichiarazione di conformità è rilasciata sotto l'esclusiva responsabilità del produttore / Deze conformiteitsverklaring wordt uitsluitend afgegeven onder de verantwoordelijkheid van de fabrikant / Esta declaração de conformidade é emitida sob a responsabilidade exclusiva do fabricante / Denna försäkran om överensstämmelse utfärdas på tillverkarens eget ansvar. Denne overensstemmelseserklæring er udstedt under producentens eneansvar. Denne samsvarserklæringen er udstedt under eget ansvar av produsenten. Tämä vaatimustenmukaisuusvakuutus on annettu ainoastaan valmistajan vastuulla. Käesolev vastavusdeklaratsioon on välja antud tootja ainuvastutusel. Ši atitikties deklaracija yra išduota tik gamintojo atsakomybe. Ši atbilstības deklarācija ir izdota vienīgi uz ražotāja atbildību. Эта декларация соответствия выдается под ответственность производителя. Niniejsza deklaracja zgodności wydana jest na wyłączną odpowiedzialność producenta. Za toto prohlášení o shodě nese odpovědnost pouze výrobce. Ezen megfeleléségi nyilatkozat kiadása a gyártó kizárólagos felelőssége mellett történik. Bu uyumluluk beyanname sadece üreticinin sorumluluğuna atlıdada yayımlanmıştır. Настоящата декларация за съответствие е издадена на пълната отговорност на производителя. Ova deklaracija o skladnosti izdaje se pod punom odgovornošću proizvođača. Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului. Za toto vyhlásenie o zhode nesie zodpovednosť iba výrobca. Za to izjavo o skladnosti odgovarja izključno proizvajalec. Η παρούσα δήλωση συμμόρφωσης εκδίδεται με αποκλειστική ευθύνη του κατασκευαστή.</p> <p>The object of the declaration described above is in conformity with the following documents: Das oben beschriebene Produkt ist konform mit den Anforderungen der folgenden Dokumente: El objeto de la declaración descrita anteriormente es conforme con los siguientes documentos: L'objet de la déclaration décrite ci-dessus est en conformité avec les documents suivants: L'oggetto della dichiarazione di cui sopra è conforme ai seguenti documenti: Het product, waar de hierboven omschreven verklaring betrekking op heeft, is in overeenstemming met onderstaande documenten: O objeto da declaração descrita acima está em conformidade com os seguintes documentos: Föremålet för försäkran ovan överensstämmer med följande dokument: Genstanden for erklæringen, som beskrevet ovenfor, er i overensstemmelse med følgende dokumenter: Gjenstanden for erklæringen ovenfor er i samsvar med følgende dokumenter: Edellä kuvattu vakuutuksen kohde on seuraavien asiakirjojen vaatimusten mukainen: Eelnevalt kirjeldatud deklaratsiooniohjekt vastab järgmistele dokumentidele. Pirmiau nurodytas deklaracijos objektas atitinka toliau išvardytus dokumentus: Iepriekš aprakstītais deklarācijas priekšmets atbilst attiecīgajiem dokumentiem: Объектом декларации, описанный выше, в соответствии со следующими документами: Przedmiot deklaracji opisany powyżej jest zgodny z następującą dokumentacją: Výše popsaný předmět prohlášení je ve shodě s následujícími dokumenty: A fent ismertetett nyilatkozat tárgyá megfelel a következő dokumentumoknak: Yukarıda açıklanan beyanın konusu aşağıdaki belgelerle uyumludur: Целта на описаната по-горе декларация е съответствие със следните документи: Gore opisani predmet izjave u skladnosti je sa sljedećim dokumentima: Obiectul declarației descrise mai sus este conform cu următoarele documente: Vyššie popísaný predmet vyhlásenia je v súlade s nasledujúcimi dokumentmi: Predmet zgoraj opisane izjave je v skladu z naslednjimi dokumenti: Το αντικείμενο της δήλωσης περιγράφεται παραπάνω συμμορφώνεται με τα ακόλουθα έγγραφα:</p>		

Marking	EU Directive	Standards / Norm	
	RoHS Directive 2011/65/EU (OJEU, 2011, L174, p88)	EN 50581:2012	
	EMC Directive 2014/30/EU (OJEU, 2014, L96, p79)	EN 61326-1:2013	
	ATEX Directive 2014/34/EU (OJEU, 2014, L96, p309)	EN 60079-0:2012 EN 60079-15:2010 EN 60079-31:2009	DEKRA 14ATEX0030 Issue 1 II 3G Ex nA IIC T6 Gc II 3D Ex tc IIIC T85°C Dc

Mettler-Toledo GmbH
 Issued on: 2016-04-20



Jean Christophe Emery
 General Manager



Ralph Werren
 Head of SBU