

CERTIFICATE

(1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **DEKRA 13ATEX0044** Issue Number: **1**

(4) Equipment: **Weighing System Type RWS-Ex**

(5) Manufacturer: **Electromach B.V.,
Member of the R. STAHL Technology Group**

(6) Address: **Jan Tinbergenstraat 193, 7559 SP Hengelo,
The Netherlands**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number 215604600.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2009

EN 60079-11: 2007

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 2 G Ex ib IIC T4 Gb

This certificate is issued on 14 February 2013 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

C.G. van Es
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 13ATEX0044**

Issue No. 1

(15) **Description**

The Weighing System Type RWS-Ex consists of a battery supplied intrinsically safe weighing Unit mounted on or used with an approved forklift, pallet car or weighing platform. The load weight is sensed by loadcells located in the forks or the platform. The weight is displayed by an indicator. The system enables the operator to determine the weight of the transported load.

The components of the system are separately approved and marked. The application depends on their approval code and safety specifications.

The following table lists the Weighing System model code, the applicable type(s) of protection, the ambient temperature range, the electrical data and the options:

Weighing System	Approval code/ type of protection	Ambient temperature range	Electrical data and options
RWS-Ex, Model BTA226x	Ex II 2 G Ex ib IIC T4 Gb	-10 °C to +40 °C	See drawing 5020-RWS-Ex/BTA226x

The system can optionally be provided with a level switch Model RELS-001-Exi that is connected to the Weighing Unit.

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. 215604600.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

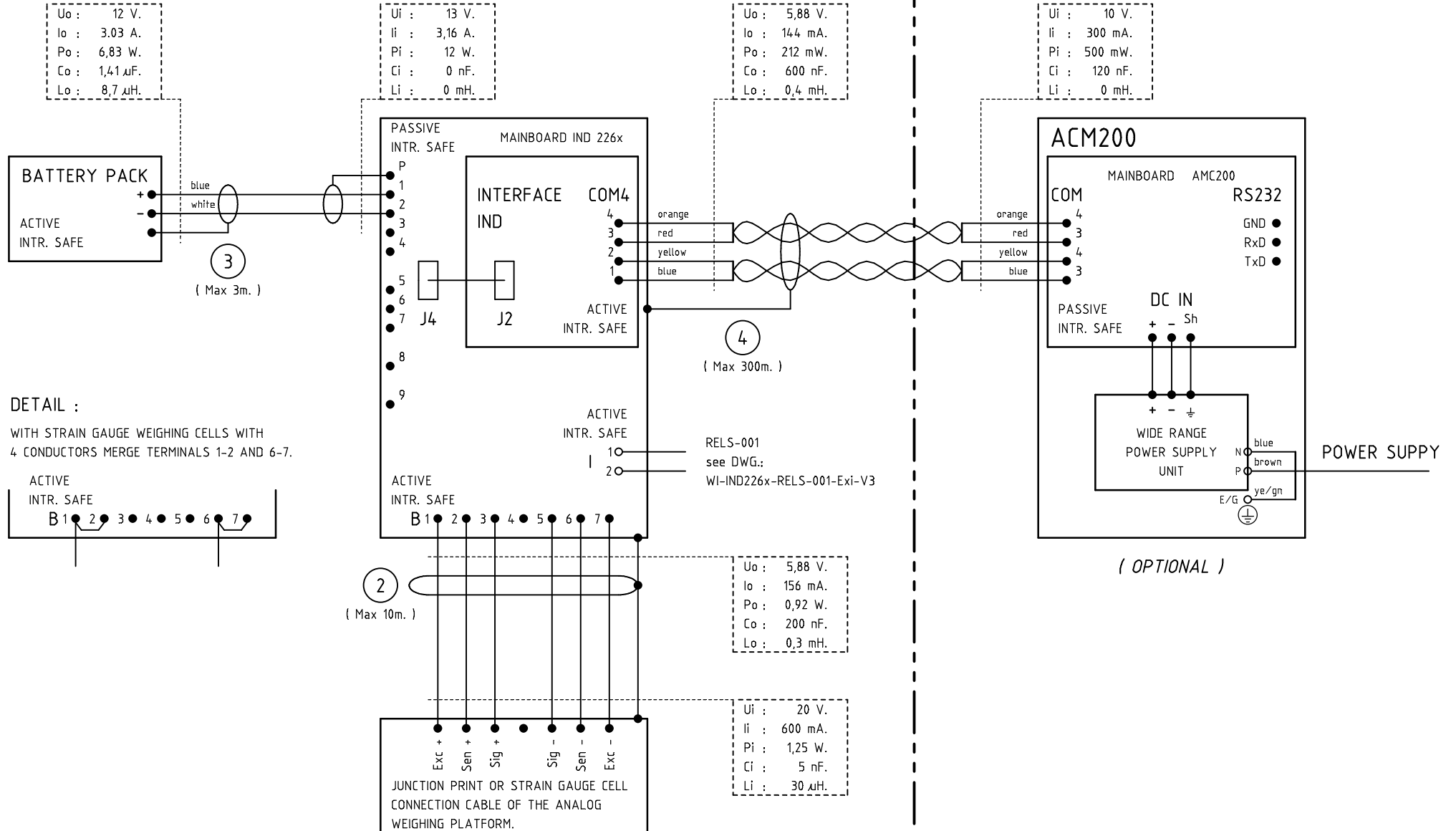
Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 215604600.

HAZARDOUS AREA

SAFE AREA



TITLE: CONNECTION- / CONTROL DIAGRAM
RWS - Ex Type : BTA266x

CLIENT:

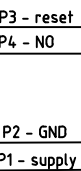


ELECTROMACH

REVISION:	DATE:	DRAWN:	CHECKED:	INTERNAL:	DATE:	DRAWN:	CHECKED:
FIRST ISSUE: 0	04-02-2013	J.W.	W.H.M.	PROJECT/DRAWING No:			SHEET:
ACTUAL:				5020- RWS-Ex/BTA226x			1

$U_i = 15V$
 $I_i = 179\text{ mA}$
 $P_i = 667\text{ mW}$
 $C_i = 0\text{ nF}$
 $L_i = 0\text{ }\mu\text{H}$

RELS-001-Exi



I - 1

I - 2

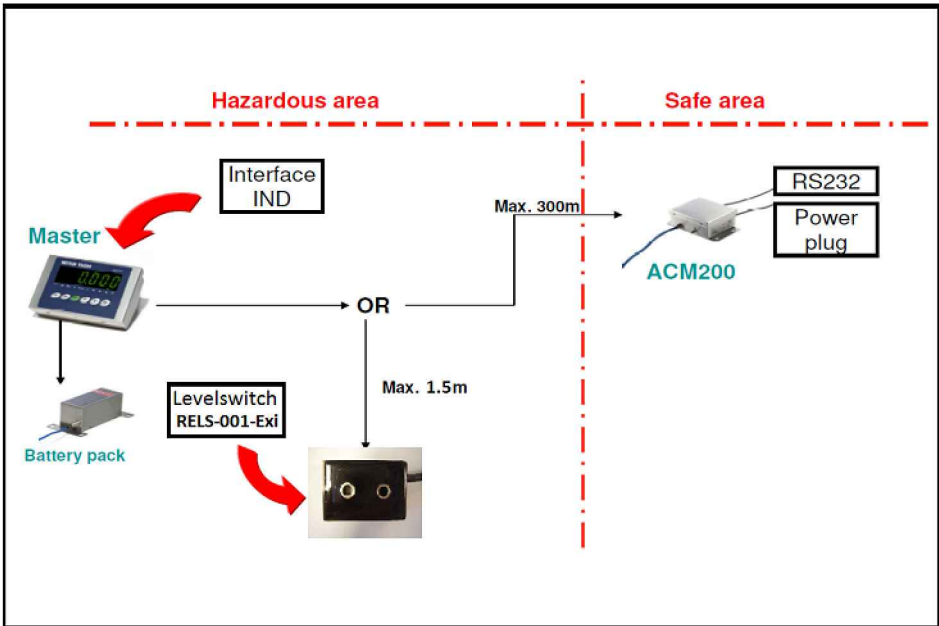
COM4 - 3

Connect shield of cable in cable gland

$U_o = 5.4\text{ V}$
 $I_o = 1\text{ mA}$
 $P_o = 1.4\text{ mW}$
 $C_o = 100\text{ nF}$
 $L_o = 0.1\text{ mH}$
 Digital Active Input Port

$U_o = 5.88\text{ V}$
 $I_o = 144\text{ mA}$
 $P_o = 212\text{ mW}$
 $C_o = 600\text{ nF}$
 $L_o = 0.4\text{ mH}$
 Active interface board COM4

Mettler Toledo indicator IND226x



designer M.R.	approved/checked by WM	Last updated 5/2/2013	Updated by MR	filename WI-IND226X-RELS-001-Exi	DATE 21/5/12	scale n.o.s.
		drawing name Wiring schematics IND226X with Exi-levelswitch RELS-001-Exi				
		drawing number WI-IND226X-RELS-001-Exi			VERSION 4	drawing format A4