



NÁVOD K VÝROBKU

Dvou vodičový převodník programovatelný, izolovaný
pro montáž na lištu, s HART protokolem

ROSEMOUNT

Rosemount 248 RA NA / 248 RA I1

POUŽITÍ

- k převodu signálu odporového nebo termoelektrického čidla na unifikovaný výstupní signál 4 až 20 mA se signálem digitálním (HART protokol)
- v prostředí s nebezpečím výbuchu v jiskrově bezpečném provedení II1G Ex ia IIC T5/T6 Ga v prostorách Zóna 0, Zóna 1 a Zóna 2 dle EN 60079-10-1 (248 HA I1)
- pro montáž na lištu DIN

POPIS

Na přední části převodníku jsou umístěny svorky k připojení čidla a napájení / vyhodnocení. Převodník se napájí z vnějšího zdroje a je vybaven ochranou proti přepólování a obvody zajišťujícími EMC. Převodník je odolný proti přerušení a zkratu čidla. Převodník je vybaven galvanickým oddělením. Převodník se nastavuje pomocí PC s použitím programu 248C1 a HART komunikátoru, nebo programu 248C2 (C3) a HART modemu (USB) - samostatně dodávané příslušenství. Převodník vyžaduje při programování napájení, při komunikaci musí být $R_{zc} = 250 \dots 1100 \Omega$ a $U_n = \min. 17,75 \text{ V DC}$.

TECHNICKÉ ÚDAJE

Jiskrově bezpečné provedení: II1G Ex ia IIC T5/T6

Parametry jiskrově bezpečného obvodu:

Výstup:	Vstup:
U_i : 30 V DC	U_o : 45 V DC
I_i : 130 mA	I_o : 26 mA
P_i : 1,0 W	P_o : 290 mW
L_i : 0 μH	L_o : 0 mH
C_i : 3,6 nF	C_o : 2,1 nF

Měřicí rozsah:

Čidlo	Měřicí rozsah [°C]	Min. rozpětí [°C]	Přesnost [°C]
Pt 100	-200...+850	10	0,2
B	100...+1820		1,5
J	-180...+760		0,5
K	-180...+1372		0,5
L	-200...+900		0,7
N	-200...+1300		0,8
S	0...+1768		1
T	-200...+400		0,5

Galvanická izolace: 500 V AC (707 V DC)

Krytí dle EN 60529:

IP 40 / IP 00

Hmotnost:

cca 0,25 kg

Druh svorek: šroubové

průřez vodičů 1,5 mm²

Proud protékající čidlem Pt100:

$\leq 0,2 \text{ mA}$

PROVOZNÍ PODMÍNKY

Teplota okolního prostředí:

ne Ex (248 HA NA)	-40 ... +85 °C
II1G Ex ia IIC T5 Ga (248HA I1)	-60 $\leq T_a \leq$ +80 °C
II1G Ex ia IIC T6 Ga (248HA I1)	-60 $\leq T_a \leq$ +60 °C

Relativní vlhkost okolního prostředí:

0 až 99 % bez kondenzace

Napájení převodníku:

ne Ex (248 HA NA) ze zdroje SELV,
(např. INAP 16 nebo INAP 901)
Ex i (248 HA I1) z jiskrově bezpečného zdroje Ex ia,
(např. INAP 901 obj. č. 901 000 101)

Druh napájecí sítě:

ne Ex (248 HA NA) DC 12 V až 42,4 V
(ochrana proti přepólování)
Ex i (248 HA I1) DC 12 V až 30 V
(ochrana proti přepólování)
viz parametry jiskrově bezpečného obvodu

Vliv změny napájecího napětí: $< \pm 0,005 \%$

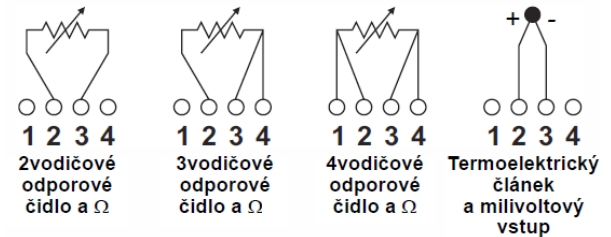
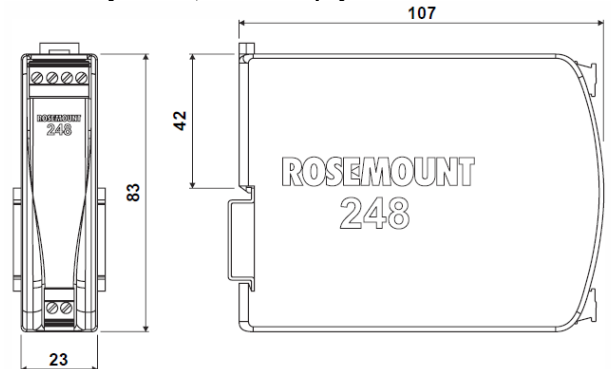
Vibrace: 10 ... 60 Hz posunutí 0,21 mm
60 ... 2000 Hz zrychlení 3 g

Elektromagnetická kompatibilita EMC:

emise a odolnost vyhovují normě EN 61326

Doba ustálení: $< 0,5 \text{ s}$ při vypnutí tlumení

Rozměrový náčrt, schéma zapojení



Zatěžovací odpor proudového výstupního signálu:

$$R_{zc \max} = \frac{U_n - 12}{0,023} [\Omega, V] \quad R_{zc} = R_z + R_v [\Omega]$$

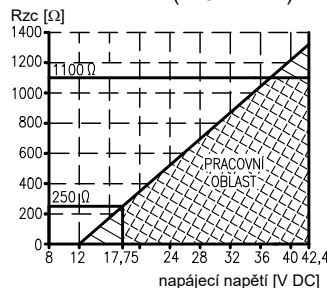
kde $R_{zc \max}$ je maximální celkový zatěžovací odpor R_{zc}

U_n je napájecí napětí zdroje

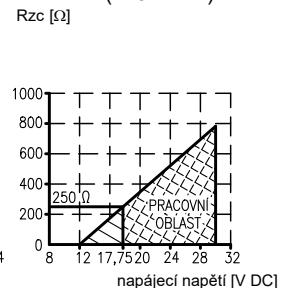
R_v je odpor vedení v napájecí smyčce

R_z je zatěžovací odpor

Zatěžovací charakteristiky
ne Ex (248 HA NA)



Ex i (248 HA I1)



Stabilita:

$\pm 0,1 \%$ z měřené hodnoty nebo $0,1 \%$ °C
(větší z obou hodnot) po dobu 12 měsíců

Automatická kalibrace: při každé aktualizaci teploty

METROLOGICKÉ ÚDAJE

Vstupní signál:

z odporového čidla Pt100 dle IEC 751, v dvou, tří a čtyřvodičovém zapojení, $\alpha = 0,00385 [K^{-1}]$ nebo z termoelektrody B, J, L, T, K, N, S dle EN 60584-1 další vstupní signály viz www.rosemount.com

Výstupní signál:

3,9 ... 20,5 mA, lineární s teplotou

Signál při poruše čidla (nastavitelný):

$\leq 3,75 \text{ mA}$ nebo $> 21 \dots 23 \text{ mA}$

Určité poruchy hardwaru, takové jako selhání mikroprocesoru, budou vždy nastavovat výstup na hodnotu větší než 23 mA.

Omezení výstupního signálu: $\leq 23 \text{ mA}$

Časová odezva:

$< 0,5 \text{ s}$

Tlumení:

5 ... 32 s

CERTIFIKACE:

provedení 248HA I1

- nevybušnost II1G Ex ia IIC T5/T6 Ga
- certifikát ES přezkoušení typu dle směrnice 94/9/EC Baseefa 03 ATEX 0030X/4

Další informace na www.rosemount.com

Certificate Number
Baseefa03ATEX0030X

Baseefa

Issued 20 February 2003
Page 1 of 3

EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/EC

1 EC - Type Examination Certificate Number: Baseefa03ATEX0030X

2 Equipment or Protective System: Model 248 Temperature Transmitter

3 Manufacturer: ROSEMOUNT INC.

4 Address: 12001 Technology Drive, Eden Prairie, Minnesota, 55344-3095, USA

5 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

6 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/EC of 23 March 1994, certifies that this equipment or protective system 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.

7 The examination and test results are recorded in confidential Report No. 92/C90533

8 Compliance with the Essential Health and Safety Requirements has been assessed by compliance with:
EN 50419/99 + Amendment 1 & 2 EN 50282/2002 EN 50284/1999

9 except in respect of those requirements listed in item 18 of the Schedule.

10 If the sign "CE" is placed after the certificate number, it indicates that the equipment or protective system 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 and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following:
 (a) II 1 G EEx ia IIC T5 (40°C; Ta ≤ +80°C)
 (b) II 1 G EEx ia IIC T5 (40°C; Ta ≤ +60°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. 0914 Project File No. 92/0533

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Certificate Number
Baseefa03ATEX0030X

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Issued 20 February 2003
Page 2 of 3

Schedule

13 Certificate Number Baseefa03ATEX0030X

14 Description of Equipment or Protective System

The Model 248 Temperature Transmitter is designed to convert a process temperature measurement into a 4 to 20mA signal. The apparatus comprises an electronic circuit mounted on a single PCB and encapsulated inside a plastic DIN B size housing. Six terminals are provided on the apparatus housing for electrical connection to temperature sensors and other devices.

Input/Output Parameters

HART loop terminals, + and -

U_i = 30V C_i = 3 nF
I_i = 130mA L_i = 0
P_i = 1W

The above supply must be derived from a linear supply.

Sensor terminals 1 to 4

U_s = 45V C_s = 2.1 nF
I_s = 20mA L_s = 0
P_s = 200mW

Load Parameters

The capacitance and either the inductance or the inductance to resistance (L/R) ratio of the load connected to the sensor terminals 1 to 4 must not exceed the following values:

GROUP	CAPACITANCE nF	INDUCTANCE mH	OR L/R RATIO mH/Ω
1A	21.8	23.8	53.1
1B	217.9	87.4	209.2
1C	721.9	184.5	383.6

16 Report Number
02/C90533

17 Special Conditions for Safe Use

1. The apparatus must be installed in an enclosure which affords it a degree of protection of at least IP20. Non-metallic enclosures must have a surface resistance of less than 10GΩ. Light alloy or aluminium enclosures must be protected from impact and friction when installed.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed in item 9.

Certificate Number
Baseefa03ATEX0030X

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Issued 20 February 2003
Page 3 of 3

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
00248-0201	1	AA	12/03/02	Bridge circuit
00248-1011	1	AA	11/27/02	Approval drawing, Baseefa I.S. & Type N
00248-1100	3	AB	02/06/03	Schematic, 248 electronics board, headmount
00248-1101	3	AA	12/13/02	PWB, 248 board
00248-1102	1	AB	02/06/03	CCA, 248 board
00248-1201	1	AB	07/23/02	Terminal plug combination
00248-1401	2	AB	11/27/02	248 housing assembly
00248-1501	2	AA	11/03/02	248 nameplate label
00248-1511	2	AB	09/22/03	CEN/LEC (Baseefa) Approval Labels, 248
00248-1512	2	AB	11/19/02	Terminal label, 248
00248-2201	1	AB	10/23/02	248 electronics module, cap
00248-2202	1	AA	10/23/02	248 electronics module, top
00248-1101	3	AA	12/13/02	PWB, 248 board: All pages

Certificate Number
Baseefa03ATEX0030X/1

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Issued 24th February 2004
Page 1 of 2

SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/EC

1 Supplementary EC - Type Examination Certificate Number: Baseefa03ATEX0030X/1

2 Equipment or Protective System: Model 248 Temperature Transmitter

3 Manufacturer: ROSEMOUNT INC.

4 Address: 12001 Technology Drive, Eden Prairie, Minnesota, 55344-3095, USA

5 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0030X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

Baseefa (2001) Ltd. Customer Reference No. 0914 Project File No. 64/0011

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Certificate Number
Baseefa03ATEX0030X/1

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Issued 24th February 2004
Page 2 of 2

Schedule

13 Certificate Number Baseefa03ATEX0030X/1

14 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the use of an alternative transformer and other minor changes.

16 Report Number
None

17 Special Conditions for Safe Use
None additional to those listed previously.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
00248-1011	1	AB	11/24/03	Approval drawing 15 & Type N
00248-1102	1	AC	08/01/03	CCA, 248 board
00248-1201	1	AE	05/08/03	Terminal plug combination
00248-1401	2	AG	11/17/03	248 housing assembly
00248-1502*	3	AB	11/10/03	248 nameplate label
00248-1511	3	AD	11/10/03	Terminal label, 248
00248-2201	1	AC	06/30/03	248 electronics module cap

These drawings are common to Baseefa03ATEX0030X/2.

* This drawing replaces 00248-1501 which is now obsolete.

Certificate Number
Baseefa03ATEX0030X/2

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Issued 27th April 2005
Page 1 of 2

SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/EC

1 Supplementary EC - Type Examination Certificate Number: Baseefa03ATEX0030X/2

2 Equipment or Protective System: Model 248 Temperature Transmitter

3 Manufacturer: ROSEMOUNT INC.

4 Address: 12001 Technology Drive, Eden Prairie, Minnesota, 55344-3095, USA

5 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0030X/1 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. 0914 Project File No. 05/0134

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Certificate Number
Baseefa03ATEX0030X/2

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Issued 27th April 2005
Page 2 of 2

Schedule

13 Certificate Number Baseefa03ATEX0030X/2

14 Description of the variation to the Equipment or Protective System

Variation 2.1

To permit:

- An alternative, DIN rail mounting, enclosure.
- Minor modifications to the drawings that have no effect on the original assessment.

16 Report Number
05/C9134

17 Special Conditions for Safe Use
None additional to those listed previously.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
00248-1011	1 & 2	AC	02/04/05	Approval Drawing, Baseefa I.S. & Type N
00248-1100	1 to 3	AD	12/21/04	Schematic, 248 Electronics Board Headmount
00248-1101	1 to 3	AC	02/27/04	PWB, 248 Board
00248-1102	1 of 1	AG	12/21/04	CCA, 248 Board
00248-1104	1 to 3	AA	02/04/05	Schematic, 248 Electronics Board Rosemount
00248-1105	1 & 2	AC	02/04/05	PWB, 248 Rosemount
00248-1106	1 of 1	AA	02/04/05	CCA, 248 Rosemount Main Board
00248-1107	1 of 1	AA	02/04/05	Schematic, 248 Rosemount Terminal Block
00248-1108	1 to 3	AB	04/25/05	PWB, 248 Rosemount Top
00248-1109	1 of 1	AA	02/04/05	CCA, 248 Rosemount Terminal Board
00248-1502	1 to 3	AC	05/10/04	248 Nameplate Label
00248-2202	1 of 1	AC	05/10/04	Electronics Module Cap, 248 and Monitor 248

These drawings are common to Baseefa03ATEX0030X/3.

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Certificate Number
Baseefa03ATEX0030X/3

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Issued 27 November 2006
Page 1 of 2

SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/EC

1 Supplementary EC - Type Examination Certificate Number: Baseefa03ATEX0030X/3

2 Equipment or Protective System: Model 248 Temperature Transmitter

3 Manufacturer: ROSEMOUNT INC.

4 Address: 12001 Technology Drive, Eden Prairie, Minnesota, 55344-3095, USA

5 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0030X/2 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. 0914 Project File No. 64/0022

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Certificate Number
Baseefa03ATEX0030X/3

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Issued 27 November 2006
Page 2 of 2

Schedule

13 Certificate Number Baseefa03ATEX0030X/3

14 Description of the variation to the Equipment or Protective System

Variation 3.1

To permit:

- the introduction of HART clips on the Model 248 Rosemount version.
- minor drawing changes that do not affect the original assessment.

16 Report Number
None

17 Special Conditions for Safe Use
None additional to those listed previously.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
00248-1011	1 & 2	AD	05/02/06	Approval Drawing Baseefa I.S. & Type N
00248-1100	1 to 3	AE	04/25/05	Schematic, 248 Electronics Board Headmount
00248-1101	1 of 1	AE	04/25/05	CCA, 248 Board
00248-1102	1 of 1	AC	04/05/05	CCA, 248 Rosemount Main Board
00248-1107	1 of 1	AC	11/07/05	Schematic, 248 Rosemount Terminal Block
00248-1108	1 to 3	AE	11/07/05	PWB, 248 Rosemount Top
00248-1109	1 of 1	AD	01/17/06	CCA, 248 Rosemount Terminal Board
00248-1401	1 & 2	AN	01/27/06	248 Housing Assembly
00248-1502	1 to 4	AD	02/10/06	248 Nameplate Identification Label
00248-2202	1 of 1	AD	09/26/05	Electronics Module Cap, 248 and Monitor 248

These drawings are common to Baseefa03ATEX0030X/4.

Certificate Number
Baseefa03ATEX0030X/4Issued 3 March 2008
Page 1 of 2

1 SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC3 Supplementary EC - Type Examination Certificate Number:
Baseefa03ATEX0030X/4

4 Equipment or Protective System: Model 248 Temperature Transmitter

5 Manufacturer: Rosemount Incorporated

6 Address: 8200 Market Boulevard, Chanhassen, Minnesota 55317, USA

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0030X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

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Baseefa Customer Reference No. 0914

Project File No. 07/1010

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Certificate Number
Baseefa03ATEX0030X/4Issued 3 March 2008
Page 2 of 2

13 Schedule

14 Certificate Number Baseefa03ATEX0030X/4

15 Description of the variation to the Equipment or Protective System

Variation 4.1

To permit minor drawing changes that do not affect the previous assessment.

Variation 4.2

To confirm that the Model 248 Temperature Transmitter has been reviewed against the requirements of EN 60079-0:2006 and EN 60079-11:2007 in respect of the differences from EN 50014:1997 + Amendments 1 & 2 and EN 50020:2002 and that none of these differences affect this equipment.

16 Report Number

GB/BAS/ExTR08.0155/00

17 Special Conditions for Safe Use

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Document No.	Sheets	Document Title	Issue	Date
00248-0201	1 of 1	Bridge, Circuit	AA	12.03.02
00248-1011	1 & 2	Approval Drawing, Baseefa I.S. & Type N	AE	10.12.07
00248-1100	1 - 3	Schematic, 248 Electronics Board, Headmount	AG	06.28.07
00248-1101	1 - 3	PWB, 248 Board	AE	10.23.07
00248-1102	1 of 1	CCA, 248 Board	AM	11.05.07
00248-1104	1 - 3	Schematic, 248 Electronics Board Railmount	AB	10.23.06
00248-1105	1 & 2	PWB, 248 Railmount	AA	02.04.05
00248-1106	1 of 1	CCA, 248 Railmount Main Board	AE	10.12.06
00248-1107	1 of 1	Schematic, 248 Railmount Terminal Block	AC	11.07.05
00248-1108	1 - 3	PWB, 248 Railmount Top	AE	11.07.05
00248-1109	1 of 1	CCA, 248 Railmount Terminal Board	AE	06.07.06
00248-1201	1 of 1	Terminal Plug Combination	AE	05.08.03
00248-1401	1 & 2	248 Housing Assembly	AP	06.20.06
00248-1502	1 - 4	Puck Style Transmitter Identification Label	AF	04.17.07
00248-1511	1 & 2	Cenelec (Baseefa) Approval Labels, 248	AF	02.28.08
00248-1531	1 & 2	Terminal Label, 248	AF	11.05.07
00248-2201	1 of 1	248 Electronics Module, Cap	AC	06.30.03
00248-2202	1 of 1	248 Electronics Module, Cup	AD	09.26.05

These drawings, with the exception of 00248-1511, are common to Baseefa03ATEX0032U/5 and IECEX BAS07.0087U and held with IECEX BAS07.0086X.

listopad 2015

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