



Certificado de Conformidade

Certificate of Compliance ♦ Certificado de Conformidad

Certificado N.º: TÜV 13.2463 X

Certificate No. ♦ Certificado N.º:

Revisão: 02

Review ♦ Revisión:

Válido até: February 18, 2023

Valid until ♦ Válido hasta:

Emitido em: February 18, 2020

Issued ♦ Emitido:

Produto:

Product ♦ Producto:

**Hand Held Terminal
DHH805A**

Solicitante:

Applicant ♦ Solicitante:

**ABB LTDA.
Rodovia Senador José Ermínio de Moraes, km 11 – Aparecidinha
18087-125 – Sorocaba – SP
CNPJ: 61.074.829/0087-01**

Fabricante:

Manufacturer ♦ Fabricante:

**ABB SPA
Via Vaccani, 4
22016 Tremezzina (Loc. Ossuccio) Como – Italy**

Fornecedor / Representante Legal:

Supplier / Legal Representative ♦ Proveedor /
Representante Legal:

Not applicable.

Normas Técnicas / Regulamento:

Standards / Regulation ♦ Normas / Reglamento:

**ABNT NBR IEC 60079-0:2013
ABNT NBR IEC 60079-11:2013
ABNT NBR IEC 60079-26:2014
INMETRO Administrative rule # 179 as of May 18th, 2010**

Esquema de Certificação:

Certification Scheme ♦ Esquema de
Certificación:

**Model with assessment of the quality management system of the product
production process and testing on product in accordance to clause 6.1 of
the Regulation on Conformity Assessment (RAC), annex to INMETRO
Administrative rule # 179, as of May 18th, 2010.**

**Laboratório, N.º do Relatório de Ensaios e
Data:**

Laboratory, Test Report No. and Date ♦
Laboratorio, N.º del Informe de Prueba y Fecha:

**ZELM Explosionsschutz GmbH
Test report FM # DE/ZLM/ExTR12.0001/00 issued on July 2nd, 2012**

Relatório de Auditoria e Data:

Audit Report and Data ♦ Informe de Auditoría y
Fecha:

Audit carried out on 17/02/2020 PO 0066-20.

Notas:

Notes ♦ Anotación:

**"The validity of this Certificate of Compliance is related to fulfillment of
the maintenance assessments and possible non conformities processing,
according to OCP's orientation established into specific RAC. To confirm
the current status of this Certificate of Compliance the INMETRO's
products and services certified database shall be checked."
This certificate is related to offer 27120571 from January 29th, 2020.**

Igor Moreno
Local Field Manager

**"This document is composed of 04 pages and is valid when displayed
with all your pages. Further information and notes are contained on
subsequent pages."**



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List of models

Marca <i>Brand ♦ Marca</i>	Modelo <i>Model ♦ Modelo</i>	Descrição <i>Description ♦ Descripción</i>	Código de Barras GTIN <i>GTIN Barcode ♦ Código de Barras GTIN</i>
ABB	DHH805A	Hand Held Terminal	Non-Existent

Description:

The Hand Held Communicator DHH805A is a hand held device used to configure, calibrate and troubleshoot smart transmitters via the HART protocol. The hand held communicator can be used either directly at the device or via a remote connection. The device is suitable for the use in explosive hazardous areas which requiring a EPL Ga.

Temperature data:

Permissible temperature range during use	- 10 °C ≤ Ta ≤ 50 °C
Permissible temperature range during charging	10 °C ≤ Ta ≤ 35 °C
Permissible temperature range during USB connection	10 °C ≤ Ta ≤ 40 °C

Electrical ratings:

Supply:	from the associated built-in battery pack type AU3153. The internal circuit is intrinsic safe. outside the explosion hazardous area, the use of battery pack type AU3160 is permitted.
HART Interface:	only for connection to a certified intrinsic safe circuit with the following maximum values: U _i = 30 V I _i = 215 mA P _i = 0,85 W C _i = 0,04 µF L _i = negligible resp. U _o = 2.6 V I _o = 18 mA
Charging connector:	only for connection of the battery charger type EV3030 outside of the explosion hazardous area maximum r.m.s. a.c. voltage U _M = 250 V
USB connector:	only for connection to USB-circuit outside of the explosion hazardous area maximum r.m.s. a.c. voltage U _M = 250 V

Testing and analysis performed:

The testing and analysis performed are described on technical report # TÜV 13.2460.

Technical Documentation:

- Test report FM # DE/ZLM/ExTR12.0001/00 issued on July 2nd, 2012.

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Revisão: **02**

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Document	Page	Description	Rev.	Date
AU3146	3	Hand Terminal DHH 805	3	16/02/2012
AU3153	3	Hand Terminal DHH 805 NI-MH battery pack	1	23/05/2011
AU3161	3	Hand Terminal DHH 805 Assembly with NI-MH battery pack	1	09/11/2011
DH3189	38	2600T Series Hand Held Communicator DHH805DDB Intrinsic safety certification	2	-
DH3204	1	DHH805DDB	0	03/02/2012
DH3205	2	Hand held communicator – mod. DHH 805	3	16/02/2012
DH3206	1	DHH805-NIMH Battery pack	0	08/11/2011
DH3207	2	Printed circuit for rechargeable battery	2	07/02/2012
DH3218	1	Hand held communicator DHH 805 Intrinsic Safety Certification Assembly Drawing	0	15/11/2011
DH3236	1	DHH 805 Labels Inmetro Approval Brazil	0	04/02/2014
DH3004	1	DHH805 Transformer	0	20/03/2012
EV3028	2	ABB C Type LCD	0	02/11/2011
EV3029	2	DHH 805 Membrane switch	0	16/07/2010
OI;DHH805-PT	56	Instruções de operação	A	-

Marking:

The Hand Held Communicator, model DHH805A was approved in the tests and analysis, in accordance to the applicable standards and they shall have the following marking, taking into account, the item "Remarks".

Ex ia IIC T4 Ga
-10 °C ≤ Tamb ≤ +50 °C
Ui = 30 V
Ii = 215 mA
Pi = 0,85 W
Ci = 0,04 µF
Li = negligible

Remarks:

- The certificate number has the letter X to indicate the following restriction for use:
 The Hand Held Communicator must be charged outside the explosion hazardous area. During charging the ambient temperature range must be $10\text{ °C} \leq T_a \leq 30\text{ °C}$.
 The Hand Held Communicator must be used with the battery pack type AU3153 inside the explosion hazardous area. The battery pack of type AU3160 may be used only outside the explosion hazardous area.
 The connection of the USB-communication must be done outside the explosion hazardous area. During USB-communication the ambient temperature range must be $10\text{ °C} \leq T_a \leq 40\text{ °C}$.
 The HART interface shall be used only in parallel connection to avoid voltage addition.
 The use of the protection rubber is permitted inside the explosion hazardous area. The use of the elastic band is not permitted inside the explosion hazardous area.



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2. This certificate is valid for the products with the same model and type number according to the prototype tested. Any modification in the project, as well as the use of components apart from those defined by the product documentation, without previous authorization from TÜV Rheinland, will invalidate this certificate.
3. It is manufacturer responsibility to assure that the manufactured products are in accordance to the tested prototype specification, through of visual, dimensional inspections and routine testing.
4. The products must bear, on the external surface and in a visible place, the conformity marking and the technical characteristics in accordance to the standards ABNT NBR IEC 60079-0 / ABNT NBR IEC 60079-11 / ABNT NBR IEC 60079-26 and Regulation on Conformity Assessment, attached to INMETRO administrative rule # 179, issued on May 18th, 2010. This marking must be legible and durable, taking into account, all possible chemical corrosion.
5. The product must bear, in a visible place and in indelible form, the following warning:
"ATENÇÃO - Não remover as coberturas dos terminais de conexão em área classificada"
"ATENÇÃO - Utilizar carregador de bateria EV3030, entrada 15 Vcc/ 200 mA"
6. The activities of installation, inspection, maintenance, repair, overhaul and recovery of products are the user's responsibility and must be performed in accordance with the requirements of current technical standards and the manufacturer's recommendations.

Natureza das Revisões / Data

Nature of Reviews/Date ♦

Naturaleza de las Revisiones / Fecha

Review 00:

February 18th, 2014 – Initial Certification;

Review 01:

October 27th, 2017 – Revalidation.

Review 02:

April 03th, 2020 – Revalidation.

