





This certificate is issued for the electrical apparatus

Hand held communicator model KHT 1 DELTAPI K series

manufactured by ABB Kent-Taylor SpA - Lenno (CO) - Italy

and submitted for certification by ABB Kent-Taylor SpA - Lenno (CO) - Italy

This electrical apparatus and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

CESI, being an approved certification body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC), certifies that the apparatus complies with harmonized European Standards for electrical apparatus for potentially explosive atmospheres

EN 50.014 - 1977 + A1..A5 (CEI 31-8) - General requirements

EN 50.020 - 1977 + A1..A2 (CEI 31-9) - Intrinsic safety "i"

as it has successfully met the verification and test requirements prescribed by these Standards. A confidential test report has been issued resuming the obtained results.

The apparatus shall be marked with the following code

EEx ia IIC T5

The supplier of the electrical apparatus referred to in this certificate, by marking the supplied product, has the responsibility to ensure that the apparatus conforms to the specifications laid down in the schedule to this certificate and has satisfied the routine verifications and tests specified therein.

This apparatus may be marked with the distinctive Community mark specified in Annex II to the Commission Directive 84/47/EEC of 16.1.1984 and here printed.

Milan, April 10, 1991
Translation issued
on May 20, 1991

test engineer

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Prot.91/010167 P.3+14 EX-91/007402
KEYWORDS: 13010R 27810T 48030A 53001D 66540E

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dated 10/4/1991

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schedule**IDENTIFICATION OF ELECTRICAL APPARATUS**

The hand held communicator model KHT 1 DELTAPI K series is a battery powered apparatus, included in a plastic case, suitable to communicate with the series DELTAPI K transmitters.

The hand held apparatus can communicate with the transmitter by membrane key-board and a LCD display.

The communication by FSK digital form (BELL 202) with HART protocol uses the same two wires line of the signal transmitter.

ELECTRICAL CHARACTERISTICS

The hand held communicator model KHT 1 DELTAPI K series is supplied by 4 Ni-Cd batteries connected in series.

- rated voltage : 5,2 V
- rated capacity : 500 mAh
- maximum recharging current : 50 mA

Intrinsically safe circuits

$V_{max in}$	\leq	30	V
$I_{max in}$	\leq	150	mA
$P_{max in}$	\leq	0,75	W
C_{eq}	$=$	40	nF
L_{eq}	$=$	0	(negligible)

Warning label:

- " Warning: electrostatic charges, clean only with wet cloths or antistatic products ".
- " Recharge in non hazardous area with $I_{max} = 50$ mA d.c. ".
- " Use battery package P/N AC5-15-26140 only ".

SPECIAL CONDITION OF SAFE USE (X)

None.

Code : EEx ia IIC T5
TM/ef

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schedule

ADDITIONAL CONDITION

The hand held communicator model KHT 1 DELTAPI K series must be connected to intrinsically safe circuits supplied by associated electrical apparatus certified according to EN 50.014/50.020 standards to comply with electrical characteristics above mentioned.

ROUTINE TESTS

The manufacturer must carry out the routine test prescribed at clause 23 of EN 50.014 standard.

DESCRIPTIVE DOCUMENTS

1)	Technical Note N. 1H5-15-00600/NT	dated	8/4/1991
2)	Annex E	dated	8/4/1991
3)	Drawing N. 1H5-15-00600 (1+3)	dated	8/4/1991
4)	Drawing N. AC5-15-07511	dated	8/4/1991
5)	Component list N. AC5-15-26120	dated	8/4/1991
6)	" N. AC5-15-26111 (1+2)	dated	8/4/1991
7)	" N. AC5-15-26140	dated	8/4/1991
8)	" N. AC5-15-26170	dated	8/4/1991
9)	" N. AD5-15-26010	dated	8/4/1991

A copy of the above documents is kept in CESI's file.

