



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa10ATEX0063**  
4 Equipment or Protective System: **Impact Transmitter Type IT6810 & IT6811**  
5 Manufacturer: **Metrix Instrument Co.**  
6 Address: **8824 Fallbrook, Houston, Texas 77064, USA**

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

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/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.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR10.0046/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN60079-0:2009 EN60079-11:2007**

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

10 If the sign "X" 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 :

**⊕ II 1G Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +100°C)**

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

Baseefa Customer Reference No. **0708**

Project File No. **09/1004**

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


**Baseefa**

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**R S SINCLAIR**  
DIRECTOR  
On behalf of  
Baseefa



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## Schedule

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Certificate Number Baseefa10ATEX0063

### 15 Description of Equipment or Protective System

The Model 5485C IT6810/6811 Impact Transmitter is designed to detect an abnormal impact in a mechanism and provide a corresponding electrical output, to monitor for wear or a mechanical fault. It comprises a piezo transducer and electronic circuits on three PCBs, all housed within a stainless steel enclosure. Electrical connections are made via a two-pole connector. Depending on the ordering code, the manufacturer may also supply a mating connector complete with up to 30m of cable.

The full type number is either IT6810-00X, where X signifies the impact threshold range, or IT6811-00X-YYY, where X signifies the impact threshold range and YYY signifies the cable length.

#### Input parameters:

$U_i = 30V$ ,  $I_i = 100mA$ ,  $P_i = 0.75W$ ,  $C_i = 29nF$   $L_i = 0$

### 16 Report Number

GB/BAS/ExTR10.0046/00

### 17 Special Conditions for Safe Use

None

### 18 Essential Health and Safety Requirements

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

### 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
1063470	1 of 1	A	05-05-10	General Arrangement IT6810/11/12 Impact Transmitter Including Marking Method & Position
9216-AGENCY	1 of 1	A	06-30-09	Schematic, DC Board, Impact Transmitter
9218-AGENCY	1 of 1	A	06-30-09	Assembly, DC Board, Impact Transmitter
9217-AGENCY	1 to 9	B	10-29-01	Drilling Detail & Track Layers, DC Board, Impact Transmitter
9213-AGENCY	1 of 1	A	07-01-09	Schematic, Digital Board, Impact Transmitter
9215-AGENCY	1 of 1	A	07-01-09	Assembly, Digital Board, Impact Transmitter
9210-AGENCY	1 of 1	A	07-01-09	Schematic, Analogue Board, Impact Transmitter
9212-AGENCY	1 of 1	A	07-01-09	Assembly, Analogue Board, Impact Transmitter
9266-XXX-DWG	1 & 2	F	10-29-01	Stencil Marking, Impact Transmitter Housing