



**TEST REPORT**  
**TS 50131-3**  
**Alarm systems – Intrusion systems**  
**Part 3: Control and indicating equipment**

Report Reference No. .... : 12SH00045.1  
Compiled by (+ signature) ..... : I. Leonardi  
Approved by (+ signature) ..... : A. Casati  
Date of issue ..... : 04/04/2008  
Content ..... : 66 pages plus 12 annexes

**Testing Laboratory** ..... : IMQ S.p.A.  
Address ..... : Via Quintiliano 43, I - 20138 Milano  
Testing location/procedure ..... : As above

**Applicant's name** ..... : GUARDALL S.r.l.  
Address ..... : Via Salvatore Quasimodo 12 – 20025 Legnano (MI)

**Test specification:**  
Standard ..... : TS 50131-3: 2004 (First Edition)  
Test procedure ..... : -  
Non-standard test method ..... : N/A

**Test Report Form No.** ..... : TS50131\_3A  
TRF Originator ..... : IMQ  
Master TRF ..... : Dated 2005-06

**Test item description** ..... : Control and Indicating Equipment  
Trade Mark ..... : GUARDALL  
Manufacturer ..... : GUARDALL S.r.l.  
Model/Type reference ..... : PX80i  
Ratings ..... : 230 V ~, ± 10%; 50 Hz; 0.22 A

**Test item particulars** .....

Classification of installation and use.....: fixed

Supply Connection.....: permanent

Security grade.....: 3

Environmental class.....: II

**Possible test case verdicts:**

- test case does not apply to the test object.....: N (N/A)

- test object does meet the requirement .....: P (Pass)

- test object does not meet the requirement .....: F (Fail)

**Testing** .....

Date of receipt of test item.....: 28.11.2007

Date (s) of performance of tests.....: 03/05/2007 to 04/04/2008

No. Samples tested .....: 03

No. B.E.M. (ref. IMQ) .....: 40787

**General remarks:**

- This test report shall not be reproduced except in full without the written approval of the testing laboratory.
- The test results presented in this report relate only to the item tested
- "The uncertainties for the tests and measurements are those listed in IMQ Operational Instruction IO-LAB-001".

Following abbreviations are used:

- ACE: Ancillary Control Equipment;
- APS: Alternative Power Source;
- ARC: Alarm Receiving Centre;
- ATE: Alarm Transmission Equipment;
- ATS: Alarm Transmission System
- CIE: Control and Indicating Equipment;
- EPS: External Power Source;
- HAS: Hold-up Alarm System;
- IAS: Intruder Alarm System;
- I&HAS: Intruder and Hold-up Alarm System;
- PIN: Personal Identity Number;
- PPS: Prime Power Source;
- PS: Power Supply;
- PU: Power Unit;
- SD: Storage Device;
- WD: Warning Device.

**Description of the equipment under test (EUT)**

Internally it is fitted with the following main parts:

- CPU Board type PX80i/100 W76484 V4.21, provided by 1 output relay, 2 O-C output OP1, OP2 (Max 250 mA) 8 TX outputs;
- Mains Transformer: Trademark AMC – Type 25635B (230 V – 20 V ; 28 VA);
- Allocable battery 12 V – 12 Ah;
- Audio module type **Audio Bus Interface/Speech** (type **W76050**) and Record or module type **Audio Bus Interface** or type **Speech**.

The c.i.e. is also provided of the following external devices:

- Alarm transmission equipment using switched telephone network type **Dual Com W76069**;
- Alarm transmission equipment using switched telephone network type **PSTN W76070** or type **GSM W76071** (Certified only for installation inside central enclosure);
- LCD Keyboard with proximity keys type **W76250** and without proximity keys reader type **W76247**;
- Proximity Key type **PROX W73820**;
- Output Module 8 relays type **W73737**;
- Output Module 8 relays type **W76512**;
- Radio Module VIS type **W76110**;
- Serial Module type **Data Com W74368**;
- Serial Module type **Modulo Seriale W76068**;
- Proximity reader type **Mini Prox Point W74443**;
- Single input module MIS type **W74442**;
- 8 input 2 output Concentrator type **W73736**;
- 4 Input Concentrator type **W76287**;
- Mini LCD Keypad type **W76289**;

Software version: V4.21

Output power supply 1.25 A distribution:

- 130 mA current for self-consumption of c.i.e. (MISURATA);
- 370 mA current for external devices;
- 750 mA current for battery recharge.

**Test program**

A prototype unit of the c.i.e, representative of the production, provided with all the above sub-units, was subjected, as far as applicable, to all the requirements specified in the reference Standard indicated on page 1 of this Test Report. The assessment was carried out in the following logical sense:

- visual inspection;
- design requirements inspection;
- Testing.

The c.i.e. has been also subjected, with all the sub units indicated above, to the requirements contained in the following standards:

- Safety Standard EN 60950-1:2002. Test results are laid down in Test Reports ref. No. 12SH00046;
- Standard CEI 79-2;Ab. Test results are laid down in Test Reports ref. No. 12AH00074;
- Electromagnetic compatibility Standard EN 50130-4:1995 + A1:1998. Test results are laid down in Test report ref. No. 80SH00369, 80SH00371.

**The complete assessment of this product must be considered exhaustive only by handling all the Test Reports mentioned in this item.**