

# METRON QA-90

## protokol o testu elektrické bezpečnosti

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QA-90 no: 12395 ver : 04.05

Dne : 19.9.2006 Hod.: 14:28

Model : M1771A

Výrobní číslo : CNC4218323

Typ : PageWriter 200

Inventurní číslo :

Výrobce: Hewlett-Packard/Agilent Technologies/Philips

Umístění/uzivatel : I. interní klinika odd. 1

Adresa: Fakultní nemocnice Olomouc, I.P.Pavlova 6, 775 20 Olomouc

Klasifikace přístroje : CL1

Mezní hodnoty podle: IEC 60601.1

## TEST RESULTS

### — MODULE INFORMATION —

Module Code  
ECG10Module Type  
CFNo of leads  
10

### — SETUP DATA —

Power Up Delay Time : 2  
 Stop at new module : No  
 Multiple Protective Earth Tests : No  
 Protective Earth test current : 25 A

Stop after new power config : No  
 Stop before new power config : No  
 Multiple Enclosure Tests : No  
 External Isolating Transformer : No

| Test                              | Limit   | Result  | Warning |
|-----------------------------------|---------|---------|---------|
| <b>Supply Voltage</b>             |         |         |         |
| N-G                               |         | 0,3 V   |         |
| L-G                               |         | 226,0 V |         |
| L-N                               |         | 226,9 V |         |
| <b>Current Consumption</b>        |         | 108 mA  |         |
| <b>Protective Earth</b>           | 200 mΩ  | 126 mΩ  |         |
| <b>Insulating Resistance</b>      |         |         |         |
| Applied Part-Case                 |         | 88 MΩ   |         |
| Mains-Case                        |         | >200 MΩ |         |
| <b>Earth Leakage Current</b>      |         |         |         |
| OS                                | 1000 μA | 31 μA   |         |
| NC                                | 500 μA  | 16 μA   |         |
| OS-RM                             | 1000 μA | 31 μA   |         |
| NC-RM                             | 500 μA  | 15 μA   |         |
| <b>Enclosure Leakage Current</b>  |         |         |         |
| OS                                | 500 μA  | 0 μA    |         |
| NC                                | 100 μA  | 0 μA    |         |
| OE                                | 500 μA  | 16 μA   |         |
| OS-RM                             | 500 μA  | 0 μA    |         |
| NC-RM                             | 100 μA  | 0 μA    |         |
| OE-RM                             | 500 μA  | 15 μA   |         |
| <b>Patient Leakage Current AC</b> |         |         |         |
| OS, Module : ECG10, Lead : 10     | 50 μA   | 0 μA    |         |
| NC, Module : ECG10, Lead : 10     | 10 μA   | 0 μA    |         |
| OE, Module : ECG10, Lead : 10     | 50 μA   | 0 μA    |         |
| OS-RM, Module : ECG10, Lead : 10  | 50 μA   | 0 μA    |         |
| NC-RM, Module : ECG10, Lead : 10  | 10 μA   | 0 μA    |         |
| OE-RM, Module : ECG10, Lead : 2   | 50 μA   | 2 μA    |         |

**Mains on Applied Parts**

|                                    |            |           |
|------------------------------------|------------|-----------|
| SFC, Module : ECG10, Lead : ALL    | 50 $\mu$ A | 7 $\mu$ A |
| SFC-RM, Module : ECG10, Lead : ALL | 50 $\mu$ A | 7 $\mu$ A |

**Patient Auxiliary Current AC**

|                                  |            |           |
|----------------------------------|------------|-----------|
| OS, Module : ECG10, Lead : 10    | 50 $\mu$ A | 0 $\mu$ A |
| NC, Module : ECG10, Lead : 10    | 10 $\mu$ A | 0 $\mu$ A |
| OE, Module : ECG10, Lead : 10    | 50 $\mu$ A | 0 $\mu$ A |
| OS-RM, Module : ECG10, Lead : 10 | 50 $\mu$ A | 0 $\mu$ A |
| NC-RM, Module : ECG10, Lead : 10 | 10 $\mu$ A | 0 $\mu$ A |
| OE-RM, Module : ECG10, Lead : 10 | 50 $\mu$ A | 0 $\mu$ A |

**Patient Auxiliary Current DC**

|                                  |            |           |
|----------------------------------|------------|-----------|
| OS, Module : ECG10, Lead : 10    | 50 $\mu$ A | 0 $\mu$ A |
| NC, Module : ECG10, Lead : 10    | 10 $\mu$ A | 0 $\mu$ A |
| OE, Module : ECG10, Lead : 10    | 50 $\mu$ A | 0 $\mu$ A |
| OS-RM, Module : ECG10, Lead : 10 | 50 $\mu$ A | 0 $\mu$ A |
| NC-RM, Module : ECG10, Lead : 10 | 10 $\mu$ A | 0 $\mu$ A |
| OE-RM, Module : ECG10, Lead : 10 | 50 $\mu$ A | 0 $\mu$ A |

**Patient Leakage Current DC**

|                                  |            |           |
|----------------------------------|------------|-----------|
| OS, Module : ECG10, Lead : 10    | 50 $\mu$ A | 0 $\mu$ A |
| NC, Module : ECG10, Lead : 10    | 10 $\mu$ A | 0 $\mu$ A |
| OE, Module : ECG10, Lead : 10    | 50 $\mu$ A | 0 $\mu$ A |
| OS-RM, Module : ECG10, Lead : 10 | 50 $\mu$ A | 0 $\mu$ A |
| NC-RM, Module : ECG10, Lead : 10 | 10 $\mu$ A | 0 $\mu$ A |
| OE-RM, Module : ECG10, Lead : 10 | 50 $\mu$ A | 0 $\mu$ A |

\*\*\*\*\* UNIT PASSED TEST! \*\*\*\*\*

**Poznámka :**

baterie 12/1996

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