





(13) **SCHEDULE**

(14) to EC-Type Examination Certificate KEMA 10ATEX0168 X Issue No. 2

(15) **Description**

The Pressure Calibrator Models 311A-EX, 321A-EX, HPC-550 EX, HPC-552 EX and 721-EX are used to calibrate pressure devices.  
 All models use the same display, main circuit board and pressure sensors. The major differences are the external case configuration, the number of pressure ports and the internal programming.

Following pressure sensors may be used with the Pressure Calibrator Models:  
 15/16 PSIG sensor: -0.97 bar to 1.1 bar (-14 psi + 16 psi)  
 36 PSIG sensor: -0.97 bar to 2.48 bar (-14 psi + 36 psi)  
 100 PSIG sensor: -0.83 bar to 6.9 bar (-12 psi to + 100 psi)  
 300 PSIG sensor: -0.83 bar to 20 bar (-12 psi to +300 psi)  
 500 PSIG sensor: -0.83 bar to 34.5 bar (-12 psi to +500 psi)  
 1000 PSIG sensor: 0.00 bar to 69 bar (0 psi to +1000 psi)  
 1500 PSIG sensor: 0.00 bar to 103.4 bar (0 psi to +1500 psi)  
 3000 PSIG sensor: 0.00 bar to 200 bar (0 psi to +3000 psi)  
 5000 PSIG sensor: 0.00 bar to 345 bar (0 psi to +5000 psi)

Note: In this document [.] is used as a decimal separator.

Ambient temperature range: -10 °C to +45 °C

**Electrical data**

Internal supply and measurement circuit:  
 in type of protection intrinsic safety Ex ia IIB.  
 The circuit may only be powered by 4 AA Alkaline batteries of one of the following types:

- Duracell MN1500
- Rayovac 815
- Panasonic AM3
- Energizer E91

Measurement input circuit (jacks):  
 in type of protection intrinsic safety Ex ia IIB, only for connection to a certified intrinsically safe circuit, with the following maximum values:  
 $U_0 = 30\text{ V}$ ;  $I_0 = 80\text{ mA}$ ;  $P_0 = 750\text{ mW}$ ;  $C_0 = 0\text{ }\mu\text{F}$ ;  $L_0 = 0\text{ mH}$ ;  
 $U_0 = 7.14\text{ V}$ ;  $I_0 = 1.12\text{ mA}$ ;  $P_0 = 2\text{ mW}$ ;  $C_0 = 240\text{ }\mu\text{F}$ ;  $L_0 = 1\text{ H}$ .

**Installation instructions**

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. 213843000, issue 2.

(17) **Special conditions for safe use**

Batteries must only be changed in a non-hazardous area.

- (13) **SCHEDULE**
- (14) to EC-Type Examination Certificate KEMA 10ATEX0168 X Issue No. 2
- (18) **Essential Health and Safety Requirements**  
Covered by the standards listed at (9).
- (19) **Test documentation**  
As listed in Test Report No. 213843000, issue 2.