

Formaldemeter 400ST

SPECIFICATION

Sampling Method: 10ml snatch-sample of air taken by internal pump.

Sampling Frequency: 1 minute in normal IAQ conditions.

Response Time: 60 seconds in 'high accuracy' mode, approx. 8 seconds in 'lower accuracy' mode.

Mechanical: 150 x 80 x 34mm ABS plastic case.
Padded accessory-case 266 x 230 x 50mm.

Weight: 270g with 9v PP3 alkaline battery
Total kit weighs 750g.

FORMALDEHYDE SENSOR

Type: Electrochemical manufactured by PPM Technology..

Range: 0-10ppm as standard (0- 12.3 mg/m³ at 25 °C).
Extended range available on request.

Resolution: 0.001 ppm

Precision: 2%

Accuracy: 94% of all instrument readings meet the NIOSH criteria for an acceptable method when measuring 0.3ppm of formaldehyde over a relative humidity range of 25-70%. The NIOSH criterion for acceptability is that all results fall within $\pm 25\%$ of the true value at the 95% confidence level.

Calibration: By user with supplied calibration standard or by original manufacturer.



With further importance being put on air quality in public buildings, the workplace and in homes, the 400ST is aimed toward being the most accurate monitor while still providing quick and simple operation from a hand-held device.

- Displays formaldehyde concentration in both parts per million (ppm) and mg/m³.
- Displays low formaldehyde concentration to ppb level
- Immune to extremes of humidity and temperature thanks to a unique sampling method.
- Simple calibration procedure can be carried out in a few minutes after only minimal training — the full kit contains a field calibration standard (6 months shelf-life) and a comprehensive operation manual.
- Fast sampling by pressing a single button and quick recovery from normal concentrations with no “zero” and “Scale” Drift
- Full range of accessories available including rear stand or wall mount for hands-free operation and PC remote control software for data logging. See separate brochure for more details.
- Service centers throughout the P.R.C. (Suzhou Stanford) and full technical support provided under a comprehensive manufacturers warranty.
- Manufactured to ISO 9001:2000 quality standards and compliant to CE regulations.
- Other functions are available to meet special requirements: alarm, continuous sampling, PC connection and data software, DC socket and AC-DC adapter

The PPM-400ST is the latest 3-parameter instrument from PPM Technology, which directly measures airborne formaldehyde concentrations as well as ambient temperature and humidity levels. It can accurately measure low levels of formaldehyde, even in humid conditions using unique compensation techniques, while still maintaining ease of use and simple calibration.

The PPM-400ST has been awarded a P A Certificate in the Peoples Republic of China (P.R.C)

The PPM-400ST is exclusively distributed in the P.R.C by Suzhou Stanford Instruments Ltd, which has fully been trained and is a qualified distributor capable of doing all after-sale services for the meter including calibrating, repairing and other technical servicing.

TEMPERATURE & HUMIDITY MODULE

Type: Interchangeable digital CMOSens®

Range: -40 to +128 °C, 0–100% RH

Accuracy: ±0.4 °C, ±3% RH
Optional upgrade to ±0.3 °C, ±1.8% RH

Calibration: Calibrated to ISO/IEC 17025 by manufacturer. Traceable by the 'National Institute of Standards and Technology' and the 'National Physical Laboratory'.

ACCESSORIES

Calibration Standard: Suzhou Stanford Instruments Ltd. supplies an easy-to-use formaldehyde calibration standard tube for checking and adjusting the calibration of the PPM 400ST. The tube produces a known concentration of formaldehyde vapor that can be sampled by the instrument to check accuracy and performance. The standard has a 100-sample capacity or a useful life of six months (whichever occurs sooner).

Desk Stands and Wall Brackets: When the hand-held is used in continuous or automated modes with the AMS-2, SPC-1 or i/iB then a range of special brackets are available so that the 400ST can be placed in the ideal position to achieve the best results. By mounting the 400ST on a wall then samples can be taken at head-height - the area of air that is being breathed by the occupants.

Can be upgraded for use as a continuous monitor with the addition of

- Non-volatile memory, for up to 1 month of continuous monitoring
- Internal alarm
- DC socket for mains power
- RS232 interface allowing direct connection to a PC
- Download software



AGREEMENT WITH DISTRIBUTORS

1. SUBJECT MATTER OF THE CONTRACT

The Firm PPM Technology Ltd whose registered office is at Unit 34, Cibyn Ind Estate, Caernarfon, Gwynedd, LL55 2BD, WALES UK represented by Mr John B. Jones (Managing Director) which is hereinafter called "The Principal" grants to Suzhou Stanford Instrument Co. Ltd whose registered office is at Room 505, Building 10, 220 Tayuan Road, Suzhou New District, Suzhou 215011 Suzhou, Jiangsu Province, P.R.China represented by Dr Sifu Zhang, which is hereinafter called "The Distributor", the sole exclusive right to advertise, market, sell and after-sales service the following product in the Country of China, effective from January 2010:

PPM - 400 ST Formaldehyde Meter

The above agreement is subject to annual review.

• Signed on behalf of PPM Technology Ltd

Date 1st January 2010

• Signed on behalf of

Suzhou Stanford Instrument Co. Ltd.

Date 1st January 2010

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PPM400ST完全是由我PPM技术有限公司研发、生产、调试和检测合格的产品。我公司位于英国威尔斯。

PPM400ST已由中国国家质量监督检验检疫总局授予进口产品必须型式批准证书。

PPM400ST现由中国苏州斯坦福仪器有限公司独家授权代理。该公司经我公司技术培训合格，可从事使用、校验、维修以及其他售后服务工作。

PPM400ST是我公司最新研发成功的三参数甲醛分析仪。它可直接测量空气中游离态甲醛，温度和相对湿度。由于我们将湿度补偿新技术成功运用在该仪器中，它现在即使在高湿度环境中，也能精确测量低浓度甲醛。同时该型号保持了使用方便，响应快速，操作简单，校验容易的特点。此外PPM-400ST还具备以下功能：

- 可同时双单位显示甲醛浓度，即ppm和mg/m³；
- 甲醛测量达到ppb（0.001ppm）级的分辨率；
- 具备温湿度补偿功能，免除了极端高湿高温对测量的干扰；
- 配置我公司独特的甲醛标准校验管，用户可对仪器不定期进行校准。整校准过程简单易学。
- 通过单键操作进行快速采样检测，回零迅速。无零位和跨距漂移；
- 可按用户选配提供各种附件，如仪器支架架，墙壁挂架等；
- 在中国大陆已设立售后服务中心，由苏州斯坦福仪器有限公司具体实行。我公司也是提供仪器全方位技术服务和质量保。
- 按ISO9001:2000质量标准生产，并符合CE规定。
- 另可按用户选配，在仪器上增加新功能以适应用户特殊要求，如报警、连续采样检测、电脑控制数据、分析软件、交流直流转换器、外接直流插座等。