

8-Path Intelligent Measuring and Controlling Instrument of Gases

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Using single-chip microcomputer and computative technique on gas-sensing measurement, the intelligent measurement and control of gas with many-path and much-ability is realized. In the light of the structure of many-path and the feature of gas sensors, a great number of softwares are so designed, that the drift of temperature and time is decreased, and that adaptation of one instrument to many kinds of gases and replace ability of sensors are obtained. Through the study of forecast technique, the hysteresis phenomenon in response and restoration disappears. At the same time, the instrument has many other functions, including the store of concentration data, the memory of accident data, group control and measurement of response and restoring characteristics of sensors, etc..

Key words Path; Intelligent; Measuring and controlling instrument; Single-chip microcomputer; Gas-sensing measurement; Gas sensor; Sample by make rounds

【文摘 012】沙参类脂溶性成分的薄层分析. 屠鹏飞, 徐国钧, 徐璐珊等. 中草药, 1993; 24: (3): 128

应用双波长薄层扫描法, 对 27 种沙参属植物的根脂溶性成分进行了定性、定量分析, 为沙参类中药的品质评价提供了依据。

【文摘 013】银黄制剂的薄层分析. 倪坤仪, 程光一, 童彪. 中成药, 1993; 15(3): 11

用薄层色谱法对银黄口服液及注射液中 4 种有效成分进行定性鉴别, 并对绿原酸及黄芩甙进行了薄层扫描定量。薄板为硅胶 G-CMC 板, 醋酸丁酯-甲酸-水 (7: 3: 3) 为展开剂, 扫描参数 $\lambda_s = 340\text{nm}$, $\lambda_R = 220\text{nm}$, $SX = 3$, 灵敏度 $\times 2$ 。

【文摘 014】安徽植物分类近年研究概况. 叶文才, 赵守训, 刘晓龙等. 基层中药杂志, 1991; 5(1): 8

全面总结了近 10 年来在安徽省境内发现的 68 种新的植物分类群, 并从地理和生态角度阐述了本省境内植物品种丰富多样的内在因素, 对其中主要药用植物的开发利用提出了可能的途径。

【文摘 015】闪蒸气相色谱法在中药及其制剂中的应用. 刘桂新. 基层中药杂志, 1991; 5(2): 18

闪蒸气相色谱法为近年来用于分析挥发性成分的一项新技术。本文简要介绍了该法的基本知识, 并概述了它在中药和中成药分析中的应用。