Lovibond® Colour Measurement

Tintometer® Group

PFXi-195/1

Colour Measurement for Liquid Chemicals & Industrial Oils



- Integrated RCMSi Technology for Remote Calibration
- Automatic and Non-subjective Colour Measurement
- Consistent Data Compliant with International Standards
- Very Rugged, Chemically Resistant, Steel Construction

Part Number: 1371951

Integrated RCMSi Technology for Remote Calibration

The PFXi series of spectrophotometric colorimeters introduces a unique concept in liquid colour control: RCMSi technology (Remote Calibration & Maintenance Service via internet). You can now benefit from the capability for remote calibration and servicing via the internet - eliminating any costs and time delays associated with servicing and guaranteeing compliance with standards.
Watch the RCMSi video to see how easy the procedure is.

Automatic and Non-subjective Colour Measurement

The PFXi range provides absolute results. Automatic instruments communicate in clear terms, accurately and reliably with no opportunity for human error or misjudgement.

Consistent Data Compliant with International Standards

The PFXi range automatically measures colour and displays results directly, either according to the traditional grading scales that have been wideley adopted as industry standards for colour assessment and control, or in terms of internationally recognised CIE values and spectral data.

Very Rugged, Chemically Resistant, Steel Construction

The robust steel construction enables you to use the PFXi even in the harshest of environments.

Easy Maintenance with Removable Sample Chamber

The instruments include a robust steel sample chamber which is easily removed so you can clean it or replace it should spillage occur.

Extensive and Flexible Choice of Colour Scales

You can choose from a selection of over 20 different, internationally recognised scales in a variety of combinations.

Remote Upgrade Facility

Uniquely, however, you do not need to make the choice of scales at point of purchase. The PFXi instruments are upgradeable in the field - so you can add a scale at a later date.

Calculation and Description of "Off-Hue" Status

This is a useful facility that enables you to reveal whether the sample colour is characteristic of the selected scale. Where appropriate, it includes a description of hue difference (eg. redder, greener), relative saturation (stronger or weaker) and an off-hue factor (a relative measure of the distance away in colour space of the sample colour from the "true" colour scale).

Supplied with Colour Control Software for Data Analysis

The software allows you to generate spectral and CIE diagrams as well as analyse spectral data. It also permits direct control of the instrument from the computer.

Conformance Standard, Cells and Spare Bulb Included

For regular conformance checking, certified colour reference standards are also available for routine calibration and verification of test data. Conformance filters are supplied with a Certificate of Conformity - giving you the assurance of their colour values and confirmation that they were manufactured under the control of The Tintometer Ltd's ISO 9001 quality system.

Output Conforming to GLP Including Date, Time, Sample & User ID

The adaptable software and design allow you to configure the PFXi-195 to your requirements. You can set the display language, program the instrument to only display the scales of interest and restrict access to the menu system.

Accommodates a Wide Range of Sample Cells and Tubes

As well as standard colorimetry cells, the PFXi-195 can be used with a range of tubes and standards, flow-through and disposable spectrophotometer cells.

Extensive range of accessories

A thermal printer, sample chamber, additional cells, replacement lamps and conformance filters represent some of the additional accessories you can obtain for the PFXi-195.

Note: When dealing with materials such as fats and waxes whose temperature needs to be maintained at a constant temperature +10°C above the "Cloud Point" of the material, the PFXi-880, -950 & -995 series should be considered. These are available with an additional critical feature, an optional integrated heater unit.

Industry

Chemical Industry | Food and Beverage Industry | Industries Others | Oil and Gas | Pharmaceutical Industry

Application

Chemicals | Coatings | Household Products | Petroleum Oils and Waxes

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The PFXi series of spectrophotometric colorimeters introduces a unique concept in liquid colour control: RCMSi technology. You can benefit from the capability for remote calibration and servicing via the internet - saving the cost and time associated with servicing and guaranteeing compliance with standards.

The PFXi range is supplied with a full range of colour scales for specific markets including, but not limited to, Petroleum, Edible Oils, Pharmaceuticals, Brewing and Honey. Users can upgrade scales remotely at any time.

Technical Data

Applicable Standard	ASTM D1209 ASTM D1544 ASTM D6166 ASTM E308 DIN 6162 ISO 6271
Colour Type	Transparent
Measuring Principle	9 interference filters
Repeatability	±0.0004 (CIE xy Chromaticity) on measurements of de-ionised water
Detector	blue enhanced photodiode
Display	240 x 128, back-lit graphic display, (white on blue)
Interfaces	USB RS 232 Ethernet
Path Length	0.1 - 50 mm
Measuring Geometrics	0° - 180° Transmission
Internal Storage	100,000+ Messungen
Measurement Time	less than 30 seconds
Power Supply	Universal (90 - 240 VAC), via external power supply
Sample Chamber	max 50mm cells
Keypad	23 key tactile membrane keypad; washable polyester with audible feedback
Instrument Housing	Fabricated steel with tough, textured paint finish
Spectral Range	420 - 710 nm
Bandwidth	10 nm
Baseline Calibration	Single key press; fully automated
Illuminants	CIE Illuminant A CIE Illuminant B CIE Illuminant C CIE Illuminant D65
Portability	Benchtop
Observer	2°, 10°
Touchscreen	No
Compliance	CE RoHS WEEE
Languages User Interface	English, German, French, Italian, Portuguese, Spanish, Russian, Chinese, Japanese
Dimensions	435 x 170 x 195 mm

Delivery Scope

- PFXi Series Instrument
- External Power Supply
- Set of 3 Power Leads (UK, European and United States)
- USB and LAN Cable
- Quick Start Guide
- USB Memory Stick (Containing Windows® Control Software and Manuals)
- RCMSi Starter Pack
- Certificate of Conformity
- Accessory Box with 5 Volt Halogen Lamp, Conformance Filter, 1 x W600/OG/10 Cell, 1 x W600/OG/50 Cell

Accessories

Title	Part Number
Holder for standard spectrophotometer cells (12.5 mm width)	131907
Adapter for 10.65 mm tubes	132800
Adapter for 33 mm tubes	132810
Dark sample cell for CIE values, 1 mm path length	132820
Replacement Sample Chamber for PFXi 195	133830
RCMSi Certified Calibration Pack - Full	134410
RCMSi Certified Calibration Pack - Conformance	134420
RCMSi Certified Calibration Pack - Starter	134430
PFXi IQ/OQ Documentation	137680
Flow through control software	137690
PFXi Thermal Printer	137891
PFXi Lamp 5V	138180
Tube, 10.65 mm diameter	352290
Tube, 33 mm diameter for ASTM Color	352300
Flow through cell, 50 mm path length	658010
Flow through cell, 10 mm path length	658020

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