

Colorimeters

Electronic Colorimeters, PFXi-195 Series

Lovibond®

Low cost spectrophotometric colorimeters for consistent, reliable, automatic, electronic measurement of colour for specific dedicated applications involving liquids or transparent solids. Ideal for routine analysis and quality control.

- ◆ Choice of instrument versions with international colour scales:
 - Pt-Co/Hazen/APHA, Gardner, Iodine
 - Saybolt, ASTM colour, Pt-Co/Hazen/APHA
 - FAC, Gardner
 - EBC (CIE and 430nm), ASBC (CIE and 430nm) Series 52 (Brown)
 - Ph. Eu., USP, Pt-Co/Hazen/APHA
 - ADMI (spectral and tristimulus filter methods), Pt-Co/Hazen/APHA
 - CIE values (stand selection), L*C*h colour space, Hunter lab colour space, Judd rgb
- ◆ 9 built-in interference filters with automatic selection
- ◆ Operator prompting in choice of 9 languages - English, French, German, Spanish, Italian, Portuguese, Russian, Chinese and Japanese
- ◆ RS232, USB and LAN outputs
- ◆ Supplied with Windows™-based control/downloading/analysis software which also enables the generation of spectral and CIE programmes

CIE Colour Scales

All instruments allow the operator to select measurement of samples to CIE specifications of xy chromaticity co-ordinates, luminance factor, L*a*b* colour space (CIE LAB), Delta E, optical density, % transmission and % absorption.

Technical Specification

Spectral response	nm	420 to 710
Band width	nm	20
Repeatability (using deionised water):		
Chromaticity (x,y):		±0.0004
E:		0.04
Calibration		Single key press
Light source		5V, 10W tungsten halogen lamp
Illuminant		CIE illuminant A, C, D65 (B for PFXi195/4)
Sample chamber	mm	0.1 to 50 path length cells
Outputs		RS232, USB, LAN
Data storage		100,000 measurements
Power requirement		90-240V 50/60Hz single phase supplies
Overall W x D x H	mm	435 x 195 x 170
Weight	kg	6.8

All colorimeters are supplied with Windows™ control/downloading/analysis software, optical glass cells for the colour scales as indicated, certified glass filter for regular conformance testing, spare lamp and instructions.

Colorimeter PFXi-195/1

For liquid chemicals and industrial oils analysis.

Scales: Pt-Co/Hazen/APHA, Gardner, Iodine

Cells supplied: 1 x 10mm, 1 x 50mm path length.

CS725-15 PFXi-195/1

Colorimeter PFXi-195/2

For liquid chemicals and industrial oils analysis.

Scales: Saybolt, ASTM colour, Pt-Co/Hazen/APHA

Cells supplied: 1 x 33mm, 1 x 50mm path length.

CS725-25 PFXi-195/2

Colorimeter PFXi-195/3

For liquid chemicals and industrial oils analysis.

Scales: FAC, Gardner

Cells supplied: 1 x 10mm path length.

CS725-35 PFXi-195/3

Colorimeter PFXi-195/4

For liquid chemicals and industrial oils analysis.

Scales: EBC (CIE and 430nm), ASBC (CIE and 430nm), Series 52 (Brown)

Cells supplied: 1 x 10mm, 1 x 25mm path length.

CS725-45 PFXi-195/4

Colorimeter PFXi-195/5

For liquid chemicals and industrial oils analysis.

Scales: Ph. Eu, USP, Pt-Co/Hazen/APHA

Cells supplied: 1 x 40mm, 1 x 50mm path length.

CS725-55 PFXi-195/5

Colorimeter PFXi-195/7

For sugar solutions, syrups and honey.

Scales: ICUMSA (420, 560, 710nm), Honey colour (Pfund equivalents), Series 52 (Brown)

Cells supplied: 1 x 10mm path length.

CS725-75 PFXi-195/7

Colorimeter PFXi-195/8

For water and waste water analysis.

Scales: ADMI (spectral and tristimulus filter methods), Pt-Co/Hazen/APHA

Cells supplied: 1 x 10mm, 1 x 50mm path length.

CS725-85 PFXi-195/8

Colorimeter PFXi-195/9

For transparent liquids.

Scales: CIE values (standard selection), L*C*h colour space, Hunter lab colour space, Judd rgb.

Cells supplied: 1 x 10mm path length.

CS725-95 PFXi-195/9

Spare cells. Optical glass, W600

	Path length mm
CS780-14	10
CS780-18	20
CS780-20	25
CS780-24	33
CS780-26	40
CS780-32	50



CS725