

# Specification Datasheet

## Logi-CHROM

Diode Array Detector



### Detection

Detector Type	Diode array detector
Number of Diodes	256
Pixel Pitch	2.0 nm / diode
Detection Channels	8 (Digital) / 4 (Analog)
Light Source	Deuterium (D <sup>2</sup> ) lamp with integrated GLP chip
Wavelength Range	190 - 700 nm
Spectral Bandwidth	<10 nm at H $\alpha$ line (FWHM) / Note: digital bandwidth 1 - 32 nm
Wavelength Accuracy	$\pm 1$ nm
Noise	$\pm 5$ $\mu$ AU at 254 nm (ASTM E1657-98)
Drift	400 $\mu$ AU/h at 254 nm (ASTM E1657-98)
Linearity	> 2.0 AU at 274 nm (ASTM E1657-98)
Maximum Data Rate	100 Hz (LAN) / 12.5 Hz (analog)
Flow Cell	Not included (see Accessories / Spare parts)
Time Constants	0.00 / 0.01 / 0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s
Integration Time	Automatic
Wavelength Verification	Internal holmium filter and deuterium lines
Leak Sensor	Yes

## Communication

<b>Inputs</b>	Error (IN), Start (IN), Autozero
<b>Outputs</b>	Events 1 - 2 (Relay and TTL compatible, respectively), Error (OUT), + 5 V, Valve + 24 V, Valve (OUT)
<b>Analog Outputs</b>	4 x 0 - 5 V, 20 bit, offset adjustable
<b>Control</b>	Laura software

## General

<b>Ambient Conditions</b>	Temperature range: 4 - 40 °C, 39.2 - 104 °F, Humidity: below 90 % non-condensing
<b>Power Supply</b>	100 - 240 V, 50 - 60 Hz, 75 W
<b>Dimensions</b>	361 x 158 x 523 mm (W x H x D)
<b>Weight</b>	12.2 kg

## Flow Cell

Part Number	Item
DL-241-28	Flow cell cartridge Pressure Proof, Titanium 10 mm, 10µl, 1/16", 300 bar for Logi-CHROM DAD/MWD

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