Agilent

Variable Wavelength Detector

Equipment Name	Variable Wavelength Detector
Master Model	G7114B
Derived Model	G7114A

The following table lists all the Derived Model Numbers associated with this application and a brief description of the differences (changes).

Model name	Description
G7114B	Agilent Variable Wavelength Detector (VWD) for liquid chromatography systems. Output signal data rate up to 240Hz.
G7114A	Agilent Variable Wavelength Detector (VWD) for liquid chromatography systems. Output signal data rate up to 120Hz.

Description of the difference

The listed products are electrically identical with only differences maximum signal data rate.
Below a table with details of differences per model:

Description	Master Model: G7114B	Derived Model: G7114A
Mechanics and Electronics	Identical hardware	Identical hardware
Maximum data rate (Note 1)	up to 240Hz	limited to 120Hz
Antenna	2 Lamp, Detection Cell,	Use same main and addon board as G7114B
Radio Unit	Main Board: 2 RFID Readers	Use same main and addon board as G7114B
Electronics (Note 2)	HITAG reader chip conducted output power 26.81dBm @ 125kHz	Use same main and addon board as G7114B
Reporting itself as:	G7114B	G7114A

All the models have common circuits, components, and mechanical hardware. The difference is a limited sampling rate of the optical signal of the detectors.

Note 1: Data Rate:

Detector is microprocessor controlled. Microprocessor reads the information of the sample diode with a continuous sampling rate. Microprocessor calculates an average value based on a programmable filter characteristic resulting in a data rate of:

- G7114B: 1.25, 2.5, 5, 10, 20, 40, 80, 160, 240Hz
- G7114A: 1.25, 2.5, 5, 10, 20, 40, 80, 120Hz

Data Rate is limited by firmware, no difference in hardware, therefore EMC characteristic of the instrument not affected.
These data can be read by read by LAN interface.
Note 2: Derived models which are identical to the master model referred to in this declaration with regard to EMC and radio frequency emissions.