

## 11 Annex 1 - CT7 Characteristics

Accuracy of reflectivity is given for  
reflectivity>50% C

Wavelength	365	405	464	522	624	750	970
Bandpass	10	15	25	30	30	40	50
Absolute accuracy*	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.5%
Repeatability**	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.03%

\* Absolute accuracy obtained using the VW jig for calibrating the gauge.

\*\* for a single measurement

**Note:** Optical references are not invariable. The reflection properties may change even if stored in good conditions. Periodic validation of target properties with laboratory equipment is recommended.

	Parameter	Value	Comments
1	Repeatability	See table above	Short term (5 min)
2	Thermal Stability	± 0.05%/°C	% full range
3	Incidence angle	8°	
4	Reflection wavelengths	365nm, 404nm, 464nm, 522nm, 624nm, 760nm, 970nm	Sources are LED
5	Scattering (DUST) index wavelengths	Same as reflection	Sources are LED
6	Detectors	UV Enhanced Silicon Photodiodes	
7	Operating temperature	-15 .. +40 °C	Note : CT7 may need recalibration at actual temperature Batteries may show reduction of capacity at low temperatures.
8	Storage temperature	-20°C +60°C	Not operating.
9	Power consumption	5V, Current limited to 500mA 500 -350mA when in charge 450mA when ON	Limited by construction. Protected by resettable fuse
10	Battery	2x 14500 Li-Ion 800mAh 3.7V	800-1200 mAh are also suitable
11	Charge	About 3.5h	From USB socket, CT7 switched OFF
12	Battery practical capacity	Minimum 75 measures Reflection, 3 days in stand-by	Fully charged, new battery
13	Power/data connector	Mini USB, type B	
14	Dimensions	73 x 85 x 147 mm	
15	Mass	700g	