Particle Counter TCC

The particle counter TCC is a control system for measuring the number and size of particles in liquids and gases. The measuring system is suitable for the stationary use. The TCC monitors three size classes which can be chosen freely and transfers the number of particles either as an analog signal (Power f.e. 4..20mA) to a SPS or to the RS232. For every channel limits are settable, which monitor the degree of pollution and give out an alarm signal if need be. The measuring mode of the TCC focus only on time-related measurements, so that the flow rate through the laser sensor must be held sufficiently constant. (Flowcontroller o.s.).

Technical Specifications

Particle Counter TCC

Display and Control	: LCD-Display for measurements/ LEDs for status information, drain of measuring is also controllable through SPS or BUS-interface, Keypad for manual operation
Standby-Mode	: Sleep-Mode over SPS- or Bus-Command (RS232, CAN, PROFI)
Measuring Mode	: Single measurement, continuous or interval measurement
Measuring Time / Interval Time	: Measuring -, Interval Times freely programmable
Channels / Measuring Range	: Three measuring channels with freely eligible size classes
Measurement output	: Particle number as a power signal (0-20mA, 4-20mA), over RS 232 Option: CAN-, PROFI-BUS)
Alarm gauge	: Adjustable for every channel, output over relay contact or rather digital exit
Sensor control	: Readiness and pollution
Power supply	: 18-36VDC, max. 10 W
Dimensions / Weight	: 210 x 160 x 120 (L x B x H)mm / 1.5kg

Particle sensors

Model	Flow rate in ml/min	Measuring range in µm with latex calibration	Cell dimensions in µm	max. concentration particle/ml
LDS 30/30 (water)	30	0.9 – 139	300 x 300	120 000
LDS 45/50 (oil)	50	1.5 – 150 (400)	450 x 500	25 000

Markus Klotz GmbH
Theodor-Heuss-Straße 23 75378 Bad Liebenzell Phone 07052/92336 Fax 07052/92338 E-mail info@fa-klotz.de