



## WATER ANALYSIS

### DIT-M, DIT-L photometers and DIT-IR interface module

#### DIT-M photometer

The DIT-M photometer is a state-of-the-art measuring unit that combines the mobility of a portable photometer with the characteristics of a modern laboratory photometer. Simple handling ensures reliable and quick photometric measurement of up to 15 parameters in water treatment. Long-term stable reagents are used.

##### Features

- Multilingual plain-text operator prompting makes handling easy. The user can select the following languages: English, German, French, Spanish, Italian, Portuguese and Polish.
- The DIT-M photometer operates with 6 interference filters and long-term stable LEDs as light sources without moving parts.
- Up to 1000 data sets can be saved.
- Data transfer to a PC or a printer is possible with an infrared interface via the optional DIT-IR module.

##### Applications

- Drinking water treatment
- Swimming pool and bathing water treatment
- Industrial water treatment

#### DIT-L photometer

The DIT-L compact photometer quickly analyses the concentration of chlorine, chlorine dioxide, chlorite or ozone as well as the pH value in water treatment. High operating convenience, ergonomic design, compact dimensions and safe handling make this unit essential for water analysis. Long-term stable reagents.

##### Features

- Language neutral user interface.
- Analysis is executed with 2 interference filters and long-term stable LEDs as light sources without moving parts.
- Quick access to favourite methods thanks to Scroll Memory.
- Up to 16 data sets can be saved.
- Data transfer to a PC or a printer is possible with an infrared interface via the optional DIT-IR module.

##### Applications

- Drinking water treatment
- Swimming pool and bathing water treatment

#### DIT-IR infrared interface module

DIT-IR transfers data from a DIT-M or a DIT-L photometer via infrared signal to an interface. DIT-IR can be connected to a PC (USB) or a serial printer.

### Technical data DIT-M

Display	Graphic display
Optics	6 LEDs, 6 interference filters (IF), photosensor, transparent sample chamber; Wavelength accuracy: $\pm 1$ nm; Wavelength ranges: $\lambda_1 = 530$ nm (IF $\Delta\lambda = 5$ nm), $\lambda_2 = 560$ nm (IF $\Delta\lambda = 5$ nm), $\lambda_3 = 610$ nm (IF $\Delta\lambda = 6$ nm), $\lambda_4 = 430$ nm (IF $\Delta\lambda = 5$ nm), $\lambda_5 = 580$ nm (IF $\Delta\lambda = 5$ nm), $\lambda_6 = 660$ nm (IF $\Delta\lambda = 5$ nm)
Photometric accuracy	2 % FS (Full Scale, T = 20 °C - 25 °C), measured with standard solutions
Operation	Acid and solvent resistant touch-sensitive keypad with acoustic signal
Power supply	4 batteries (type AA/LR6); lifetime approx. 3500 tests
Auto OFF	20 min. after last function; 30 seconds before switch-off an acoustical signal is emitted
Operating conditions	5 - 40 °C at max. 30 - 90 % rel. humidity (not condensing)
Interface	Data transfer with infrared interface module DIT-IR

### Parameters DIT-M

Aluminium	0.01 - 0.3	mg/l
Bromine	0.5 - 13.0	mg/l
Chlorine (free, combined, total)	0.01 - 6.0	mg/l
Chlorine dioxide	0.02 - 11.0	mg/l
Chloride	0.5 - 25	mg/l
Chlorite	0.01 - 6.0	mg/l
Cyanuric acid	2 - 160	mg/l
Iron	0.02 - 1.0	mg/l
Fluoride	0.05 - 2.0	mg/l
Manganese	0.2 - 4.0	mg/l
Ozone	0.02 - 2.0	mg/l
Phosphate	0.05 - 4.0	mg/l
Hydrogen peroxide	0.03 - 3.0	mg/l
pH	6.5 - 8.4	
Acid demand KS 4.3	0.1 - 4.0	mmol/l

### Technical data DIT-L

Display	LCD, backlit when a key is pressed
Optics	2 LEDs, 2 interference filters (IF), photosensor, transparent sample chamber Wavelength accuracy: $\pm 1$ nm Wavelength ranges: $\lambda_1 = 530$ nm (IF $\Delta\lambda = 5$ nm) $\lambda_2 = 560$ nm (IF $\Delta\lambda = 5$ nm)
Photometric accuracy	3 % FS (Full Scale, T = 20 °C - 25 °C), measured with standard solutions
Operation	Acid and solvent resistant touch-sensitive keypad
Power supply	4 batteries (type AAA/LR03); lifetime approx. 5000 tests
Auto OFF	10 min. after last function
Operating conditions	5 - 40 °C at max. 30 - 90 % rel. humidity (not condensing)
Interface	Data transfer with infrared interface module DIT-IR

### Parameters DIT-L

Chlorine (free, combined, total)	0.01 - 6.0	mg/l
Chlorine dioxide	0.02 - 11.0	mg/l
Chlorite	0.01 - 6.0	mg/l
Ozone	0.02 - 2.0	mg/l
pH	6.5 - 8.4	

### Photometric measuring principle

