

# **On-line Ölmeßsysteme**





### Technical data

Function:	Solvent extraction with following non-dispersive infrared analysis, in accordance with detection	Break between to measurements:	Adjustable from 0 minutes to 12 hours
	procedure the DIN38409, part 18	Sample quantity of water:	dependent on the adjusted measuring range
Solvent:	1.1.2 Trichlortrifluorethan		
	(other one on request)	Sample temperature:	$\frac{5-30^{\circ}C}{25-30^{\circ}C}$ $>$ 1,2
Seperating	material: Teflon	Ambient temperature:	25-30°C
filter:	Format: 50 mm	1	
	Pore size : 50µm	Solvent quantity:	15 ml
	(please only use our filters)		
		Measured value	
Measuring range:	0-20 to 0-500 ppm/l	announcement:	digitally with three digits
	adjustable (other one on request)	Maggyring data	internal printer sorial interface
Margin of error of	(other one on request)	Measuring data	internal printer, serial interface RS232 or
the reproductibility:	$\pm 2$ % of the indicator value	Voltage supply:	10252 01
1 5			Analodue output 4 to 20 mA, 2
Linearity:	$\pm2$ % (related on IR-spectrometer		make contacs floating, ever 1x
	Perkin-Elmer1320)		for system malfunctionings and
			limit value excess
Calibration:	autom. Zero point alignment, Slope alignment manually	Capacity:	230 V, 50 cycles per second (other one
	against oil level pool of		on request) approx.
	broadcasting corporations	Enclosure according	on request) approx.
	solution	to DIN 40050:	
			175 W (with heating approx. 700 W)
Control:	microprocessor-controlled		IP54
		Dimensions:	
Analysis duration:	Sequence of function and dosage		19"-steel cabinet with
	depending upon solvent approx 5 to 10 min.		Sekurit-glass door Height 2000 mm
	10 mm.		Width 600 mm
			Length 600 mm
		Weight excl.	-
		Solvent supply:	
			approx. 240 kg
Technical subject to change			

- 1) Heating available for very low ambient temperatures (please indicate temperature for the interpretation of the heater capacity).
- 2) For higher ambient temperatures possibly a cooling is necessary (please in this canse consult the manufacturer for the design of the refrigerator).



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#### Oil measuring system row (OMS)

To the fully automatic regulation of oils (hydrocarbons) in water, measuring range of 0 - 20 mg/l to 0 - 500 mg/l variable.

#### **Application:**

Oil represents a strongly loading dirt freight, which makes more difficult or prevents the biological self cleaning of the water in the waste water. Since water is an indispensable component for the human life, oil rate must be constantly controlled by in any way used water.

The oil measuring systems of the COM row are used everywhere, where on oil loads in the waste water or water is to be counted.

#### Sample applications:

- Monitoring of sewage purification plant-in and run off
- Waters monitoring
- Monitoring of light media separators
- Monitoring of cooling water cycles (e.g. oil coolers)
- Monitoring of boiler feeding water

- Monitoring of expirations of rain or storage tanks
- Control in metalworking industries (cutting oil, drilling oils, etc.)
- Final inspection in waste water processing facilities
- Control in improving plants during the electrolyte recuperation

## Equipment of the on-line measuring systems OMS-20 and OMS-30

The measuring system OMS-30 differs from the measuring system OMS-20 by an integrated treatmenr stage for the extracted waste water (stripping unit). Both models are however on special problem definitions modifiably, e.g. into existing systems fit in etc.

Extensions on total conceptions like special samplings inclusive filter systems or development to multi-functional final inspections are likewise possible.

## To our delivery offer belong further:

- Laboratory and field measuring instruments for the regulation of oils in water, soil and dredging in accordance with the DIN 38409, part18
- Offshore on-line oil measuring systems, type OMS-40, for control of the entire water of oil and natural gas promotion platforms, going over board
- Planning, project engineering and building of waste water processing facilities for industrial waste water
- Special versions of the measuring instruments for spezial applications

- pH-, oxygen-, conductivity-, redox- and temperature of measuring instruments
- Fully automatic multi-final inspections (measuring parameters: Oil, turbidity, pH value, temperature, conductivity, etc.
- Complete concepts such as UVP/ etc. with the appropriate eningeeeing
- Consultation, evaluations

#### Special features Oil Measuring System

- durable execution in the 19" steel cabinet with glass door (Sekurit safety glass) protection standard IP 54
- LED- flow chart
- Automatic rinsing procedures
- Alternatively automatic zero-cal. in the measuring procedure
- Free-rinsing entrance filter
- Automatic measurements of several sample water stream possible (optionally)
- Programming of limit values (nonstop measuring enterprise during limit value excess programmable)
- Manual measurements of water tests possible
- Treatment of the extracted sample water

- Error messages
- integrated solvent recuperation
- automatic control of the recovered solvent
- internal equipment printer
- · serial interface or
- analoque output 4 to 20 mA

• programmable control of a sampling pumps (thus the measuring system can be set up far far away form the acutal sampling place)

- 2 potential free contacts alarm and one high oil content alarm
- Inquiry of external volumetric flow meters or level sensors to sample water control possible

#### Fließbild OMS-30

