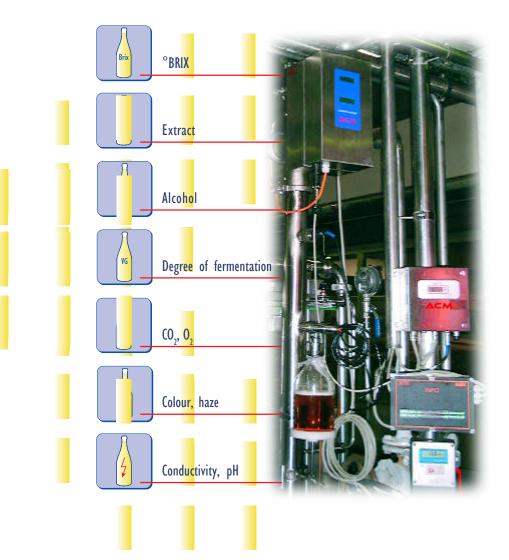
00:03:30	1,00671	1,0067	27,85	00:05:00	1,00671	1,0067	00:03:30	1,00671	1,0067	27,85
00:03:30	1,00674						/ _ C	2118		
00:03:30	1,00675	الما	LA.	ΓRロ	L.5			3 U M	IMA	R Y
00:03:30	1,00677	1,0068	27,91	00:05:00	1,00671	1,0067	00:03:30	1,00671	1,0067	27,85
00:03:30	1,00679	1,0068	28,00	00:05:00	■ mainten	ance-free In-l	line / Online °B	RIX, Extract a	nd Alcohol me	easuring
00:03:30	1,00676	1,0068	28,04	00:05:00	system f	or all applica	ations in the ju	ice and wine	making indus	try.
00:03:30	1,00673	1,0067	28,09	00:05:00	1	, ,	via touch scr			
00:03:30	1,00673	1,0067	28,10	00:05:00			ct memory, fr	-	-	
00:03:30	1,00670	1,0067	28,14	00:05:00	possibil		ocess-surve)	, alarm sett	ing and swi	itch-on
00:03:30	1,00670	1,0067	28,16	00:05:00			ces for exteri	nal data trans	fer	
00:03:30	1,00671	1,0067	28,16	00:05:00			ontrol, DIN/IS			
00:03:30	1,00675	1,0068	28,13	00:05:00	■ compac	t and robus	t configuratio	n of the sens	ors	
00:03:30	1,00681	1,0068	28,10	00:05:00	_		n the range of			
00:03:30	1,00684	1,0068	28,08	00:05:00			of CO_2 -, O_2 -	, conductivity	η, pH-, turbid	ity- and
00:03:30	1,00690	1,0069	28,07	00:05:00	colour-		eaning of the	process line	(CIP)	
00:03:30	1,00690	1,0069	28,09	00:05:00	- Cleaning	, with the ci	earning or the	process line	(Cii)	
00:03:30	1,00691	1,0069	28,04	00:05:00	The modu	ılar concept	allows the i	nstallation of	additional s	ensors,
00:03:30	1,00686	1,0069	27,94	00:05:00	the adapti	on of the sc	oftware and th	ne connection	of external	PC or
00:03:30	1,00685	1,0069	27,90	00:05:00			UATROL-syst			
00:03:30	1,00682	1,0068	27,90	00:05:00	structure	and increase	es its capabili	ties with cust	comers dema	and.
00:03:30	1,00676	1,0068	27,95	00:05:00						
00:03:30	1,00674	1,0067	27,97	00:05:00						
00:03:30	1,00676	1,0068	27,97	00:05:0 T e	echnical Da	ata				
00:03:30	1,00675	1,0068	27,97 Pov	ver supply:	230 VAC /	3 Amp.				
00:03:30	1,00679	1,0068		ing range:	BRIX: 03					
00:03:30	1,00679	1,0068	27,96	00:05:00	•	,52,0 g/cm	1 ³			
00:03:30	1,00680	1,0068	27,91	00:05:00	CO ₂ : 07		_			
00:03:30	1,00680	1,0068	27,95	00:05:00	CIP until 1	ıre: 030° (C			
00:03:30	1,00684	1,0068	27,97	00:05:00 Accuracies:	I	0,01 °BRIX				
00:03:30	1,00686	1,0069	27,98	00:05:00	I	/- 0,0001 g/d	cm³			
00:03:30	1,00686	1,0069	27,98	00:05:00	Alcohol: +	/- 0,05 Vol%				
00:03:30	1,00679	1,0068	27,97	00:05:00	CO ₂ : +/- 0),02 Vol%				
00:03:30	1,00679	1,0068	27,95	00: Dirift :	Drift-free 20/20° C					
00:03:30	1,00675		Temperature compensation:			.85				
00:03:30	1,00671	1,0067	27,75	00.05.00	RS 232 / 4 420 mA					
00:03:30	1,00675	1,0068 P	rocess co	00:05:00 nnections: 00:05:00	Varivent s	ystem				
00:03:30	1,00672				1	he mainpipe				
00:03:30	1,00668	1,0067	-	ng system:	I		emote service	, Powersafe ι	unit	
00:03:30	1,00667	1,0067		oo:05:00	QUATRO	L.50W by A	CM			
00:03:30	1,00672	1,0067 1,0067	27,97 27,90	00:05:00						
00:03:30	1,00668	1,0067	27,90	00:05:00						
00:03:30	1,00671	1,0067								
00:03:30	1,00671	1,0067	A		ACM Gm	bН				
00:03:30	1,00677	1,0069	27,92	00:05:00	A-3002 Pur	kersdorf, Wie	ener Straße 43			
00:03:30	1,00686	1,0067	27,92	00:05:00		•	5, Fax: +43 (0)22 , E-mail: office@			
00:03:30	1,00679	1,0067	27,92	00:05:00		co.dt	,	,		
00:03:30	1,00679	1,0068	27,92	00:05:00	ACM Gei	rmany erlin, Oderstr	~aße 34			
00:03:30	,	1,0069	27,96	00:05:00	Tel.: +49 (0)30 6341357	7, Fax: +49 (0)3	0 63413578		
00:03:30		1,0069	,	00:05:00	E-mail: sale	s@acm.co.at				
00:03:30				00:05:00						

00:03:30	1,00674	1,0067	27,97	00:05:00	1,00671	1,0067	00:03:30	1,00674	1,0067	27,97	00:03:30	
00:03:30	1,00674	1,0067	27,97	00:05:00	1,00671	1,0067	00:03:30	1,00674	1,0067	27,97	00:03:30	
00:03:30	1,006	1.0067	27.97	00:05:00	100671	1,0047	00:03:37	100674	1,0067	7,97	00.03.30	
00:03:30	1,006	A 38		00 5: 0	1 1 6 4	, 16.	0:03:3	1 0 76	7 68	7, 7	00 03 0	
00:03:30	1,006	58	2 07	uz	£06/3	,ō	0 :0 :3	J0 75	1 06		00 03 0	
00:03:30	1,00679	1,0068	27,96	00:05:	1,00675	1,0068	00:03:30	1,00679	0068	27,96	00:03:30	
00:03:30	1,00679	1,0068	27,96	00:05:00	1,00%	1,068		81	1,006	2	0 03:0	
00:03:30	1,00680	1,0068	27,91	00:05:00	1, 067	1, 06%	0(03:1)	006 0	1,006	17,9	0.03 (0.00)	
00:03:30	1,00680	1,0068	27,95	00:05:00	1, 067	1, D€ 🗖	00 03:	006.10	1,0068	1 7,9	0: 30	
00:03:30	1,00684	1,0068	27,97	00:05:00	1,00-4	1,0000	00:03:50	1,0004		21,77	00:03:30	
00:03:30	1,00686	1,0069	27,98		1,00684	1,0068	00:03:30		1,0069	27,98	00:03:30	
00:03:30		1,0069			1,00681		00:03:30			27,98		





continuous and efficient quality control is important for the beverage

industry. Especially during the filling process the individual softdrink and wine

parameters need to be monitored quickly, accurately and reliably. The flexible,

modularosand future-save system QUATROL.50W monitors the specific

parameters of the beverage. What makes this system outstanding is the easy

3.033

operating and its high accuracy:30

The continuous online measurement QUATROL.50B covers as wine physical parameters

the refraction number

the density of the liquid

■ and the CO₂-value Based on these readings a complete mathematical wine analysis according to MEBAK / Balling is carried out.

The following values are determined:

12.849 1.0031 6.4673

■ Alcohol in Vol% and g/l,

■ Extract,

■ Degree of fermentation,

■ Energy content in cal and kl.

For easy reading verifying to laboratory results, measuring values are compensated to 20° C.

Determination of BRIX according to the Laser principle

The refraction index (BRIX value) is highly accurate measured by the combination of a laser beam and a special prism, including unique signal evaluation electronics and algorithm.

A CCD camera detects a deflection caused by concentration. The deflection is transformed into a proportional measuring signal.

A temperature sensor measures

the beverage temperature and compensates the BRIX-reading to 20° C reference temperature.

All measuring signals are recorded, calculated and stored by a micro computer system.

Density is continuously measured at an accuracy of +/- 0.0001 g/cm3

> The optional CO, measurement is

carried out via the real Inline continuous analyser CO.20. No moving parts, robust and highly accurate, +/- 0,02 Vol%.

QUATROL.50W user terminal features:

The system owns a big versatile product storage, media settings with up to 200 products is possible. When a product is selected by its individual number or name, %STW LR /ergārungsgrad Schei the production contergärungsgrad Wirkl rol process runs fully

auto-matically. If measuring values exceed given limits, an alarm is given.

The connection of audio-visual alarm

devices and a filler switch-off is always possible.

35.4560 Brennwert kca

5.50 BRIX Temp

1.0532 Dichte Temi

5.50 CO Druck

△? ① **△ △ △ ○**

178.60

The start-up and finishing process are monitored without problems in the Manual-mode.

50 A protocol printer

brings transparency in the filling process. For easy to handle system calibration, an adjustment to laboratory values can

be done during production. Simple operation is guaranteed by modern touch screen-display technology.

Operation errors are excluded

Start: Button "START", Selection of the product number; Button "ENTER". The system starts in the Manual-mode, no alarms

Automatic: Button ,,AUTO".After startup the sytstem is switched to surveillance mode, On case of exceeding readings alarms are given.

Manual: Button "MANUAL". Manual operation. Avoids unnecessary alarms in case of errors.

Stop: Whilst the filling process stops,

-148.75

the surveillance mode is halted, no alarms are caused by production stop.

Production finish: Button "FINISH". End of surveillance. All these events as

well as additional

data can be recorded by in- or external protocol printers.

QUATROL.50W is an open and modular system, growing with customers demand. CO2, O2, conductivity, haze and pH sensors can be connected and their readings moni-tored.

By this, QUATROL.50 represents a complete automatic quality control system according to IFS/DIN/ISO 900ff. The QUATROL.50W system provides with all up-to-date data interfaces, to be bind into existing PC networks or PLC systems.



CO,-measuring unit CO.20

Laserrefractometer LR.10

compensated to 20° C reference temperature.

Caused by the varying quantity of dissolved matter in the medium, a laser beam

in combination with a specially coated prism is deflected. A CCD camera detects

accurately the deflection, the measuring signal is transfered into °BRIX. A fast

temperature sensor reads the temperature of the sample, the BRIX value is

The CO, measuring unit serves the Inline/Online CO, measurement in the brewery and beverage industry. The measuring principle is based on the continuous ACM partial pressure method; membrane system. The space after a CO,-permeable silicone membrane, fixed in the front of the measuring chamber, is filled by diffusion CO, until the chamber pressure reaches the partial pressure of the dissolved CO, in the liquid. At de- or increasing CO, concentration in the liquid, the measuring chamber pressure corresponds. By using up to date microprocessor electronics, the current CO, value is continuously calculated from the determined pressure and temperature values and shown as the actual value in Vol%.

Densitymeter DM.31

For measuring the density the U-tube densitymeter is today's common and established method. The liquid to be measured is put into oscillation in a multiply bent pipe and the resonance frequency is measured. In addition, the influence of temperature is quickly compensated.

