

## **PROCESS REFRACTOMETER UR19**

**Technical Datasheet** n° 90034H0730

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TECHNICAL SPEC	CIFICATIONS AND STANDARDS			e 1: 4mA=2Bx, 20mA=8Bx) and selectabl	
Ambient Characteristics		Serial:	at any time	e. or connection to Remote Repeater/Display	
Temperature Limits:		Serial:	PC, or ser		
	5°C+45°C			85 for connection to "QM20" Da	
0	0°C+70°C			n and Processing System "QM20", PC wi	
<u>Humidity Limits</u> :				terface and "Labtech" data acquisitio	
	5%+95% (R.H. non-condensing) 5%+95% (R.H. non-condensing)			oackages or equivalent, PC with RS4 <u>Optomux Protocol).</u>	
<u>Altitude Limits:</u>	o ville ob vi (reine non condensing)	Inputs:		s for acquisition of "Line Stopped" stat	
	2000 m a.s.l.	inputs.		e selection of personalized "mA scales".	
Protection Category:		Outputs:	N°1 relay	output for System or Process Alar	
IP65 to EN60529		signalling, with contact rating of 24V/500mA-DC/AC N°3 optional relay outputs. All interfaces are optically decoupled from the power supp (VDE0160) and fully configurable from the keypad. Connections to unit by means of two miniature circular multip			
Conformity to Standards and Directives					
<i>LVD:</i> EU 73/23, 93/68 and amendments;					
EN 61010-1 (1994)					
	/336, 93/68 and amendments;			preassembled and complete with 5 m of cable eac	
	N 50081-2 (1994-Emission) N 50082-2 (1994-Immunity)	connections made by means of supplied "Connection Box" (IP55 in polycarbonate with prewired connection cables to unit. A			
	C 1000-4-2 (1995-Elect. Discharges)		external connections are made by means of terminal board		
13	NV 50140 (1994-Irradiated Immunity)	connection		-	
IEC 1000-4-4 (1995-Burst) * CE Mark shows conformity to listed EU Directives and Standards		<b>CONSTRUCTION FEATURES</b>			
* CE Mark shows conformity to listed EU Directives and Standards. * Year 2000 compliant.		Execution		piece 304 AISI stainless steel enclosur	
fear 2000 compliant.				llation on process line by means	
<b>OPERAT</b>	IVE SPECIFICATIONS		mour		
Application:	Measurement of regular (diet on			ections. The unit requires a supporti of diameter 1 <sup>1</sup> / <sub>2</sub> "2".	
<u>ippiteation.</u>	request) beverages in process lines.	Meas. Sectio		asurement Prism in Optical Glass.	
<u>Measurement Type:</u>	Continuous refractometric			ht source with incandescent lamp.	
	measurement of the Refraction Index			D sensor element.	
	and display in selected "BRIX" or "% Standard" scale of relative			1000" temperature sensor with 3/ ded connection, installed on Mountin	
	concentration with automatic			g + circular "Pt1000" temperature sens	
	temperature compensation.		interr	hal to unit.	
<u>Measurement Limits:</u>	- 020 Brix for "Regular" scale.			f the unit is dehumidified by means of	
	- 02000 mBrix for "Diet" scale.		Molecular Sieve Desiccant Cartridge. Electronic Section:- microprocessor CPU.		
<u>Accuracy:</u>	- 0.1% of Scale Range; maximum	Liech onic 5		asurement readings and program men	
	accuracy ±0.02 Brix with ±10°C			ented on 256x64 pixel backlit graphic LC	
	variation for "Regular" scale. - 0.3% of Scale Range; maximum		displa		
	accuracy ±0.006 Brix with ±2.5°C			ypad in polyester with dome keys a ing LEDs signalling "RUN", "ALARM" a	
	variation for "Diet" scale.			D" status.	
<u>Measurement Scales:</u>	"BRIX" or "% STANDARD"; the "BRIX"			keypad also features 4 "Quick Function	
	scale refers to nD/Bx ICUMSA (1974) conversion tables.			for fast access to the following menus: rm set and inhibit;	
Product Temperature:				asurement scale display change;	
<u>1 rouuci 1emperuture:</u>	compensation of temperature		"Ze	ero" adjustment;	
	measured by Pt1000 temperature			eck menu.	
	sensor in 316 AISI stainless steel,			ssibility of choosing from 5 interfa Jages (English, French, German, Italia	
L' D	3/8", Class "A" to IEC751.			hish) for display of menus and messages.	
<u>Line Pressure:</u>	110bar (14.5145psi) at 20°C.		- Ov	ercurrent protection by means of 5x20m	
GENER	AL SPECIFICATIONS		fuse.		
	al si len icanons	Product co	ontact mate		
Supplies Electrical: AC 18V (1224V) 5060Hz 30VA		<ul> <li>Mounting Fitting in PETP.</li> <li>O-rings and Seals in EPDM.</li> </ul>			
DC 24V (1836V) 30W		- Measurement prism in Optical Glass.			
Connection box with Transformer (optional):			is and weig	ht:	
AC 115/230V ± 10% 5060Hz 80VA		Appliance		370 (w) x 176 (h) x 284 (d), ~14kg	
	ns made on terminal board.	With Mounti		468 (w) x 320 (h) x 393 (d), ~15kg	
Interfaces		Interconnect	tion Box	170 (w) x 170 (h) x 90 (d), ~2kg	
	els 020mA or 420mA into 470 $\Omega$ . nA" scales with configurable "Zero and				
	values relative to measurement limits				

Full Scale" values, relative to measurement limits