



ON-LINE AUTOMATIC TITRATOR

multiparametric analysis

The analysis of important process parameters by titration, normally carried out in the laboratory, can be automated and brought to the production line, solving the problem of the delay between taking samples and obtaining the analysis results from the laboratory.

The solution consists of automatic, specific, and customized process titrators, which are installed directly in line. The Maselli AT05 titrator, designed to operate directly on the process line, can perform multiparametric analysis on a wide range of products, providing an accurate solution to these needs.

Designed to operate in harsh environments without the need for specialized operators, the AT05 is a complete “analysis center”, performing different type of analysis for each process step. The integrated multifunctional system is housed in a watertight stainless-steel enclosure and uses simple and robust methods. The system can take process samples from up to 6 lines being capable of carrying out multiple analysis for each line. The unit perform both routine titrations and automatic self-calibration programs. These can also be controlled by PLC or DCS. It stores and provides analysis data, either through a network connection or by direct download from a USB port. The AT05 unit is easily configurable through the touchscreen interface of its panel PC. When in a network, it enables remote assistance and diagnostic from qualified personnel thanks to specific pre-installed software.

BENEFITS

- Multiparametric analysis
- Differentiated line analysis
- High standard personalized option
- Automatic self-calibration

AT05

ON-LINE AUTOMATIC TITRATOR

BASED ON PH, REDOX, ISEs , CONDUCTIVITY AND COLORIMETER

OPERATING SPECIFICATIONS

Measurements	Multiparametric Analysis by "Acid/Base, RedOx, Complexometric, Precipitation titration" with determination of the final point by means of electrode or other types of sensor.	
Temperature compensation	Automatic between 0 °C...+45 °C (+32 °F...+113 °F)	
Number of lines sampled	The appliance can sample up to 6 lines.	
Quantity of product sampled	~800 cc	
Interfaces	Analogue optional	4...20mA (on 470 Ω)
	Digital	Serial: RS232 + RS422/485 for data acquisition Usb Profibus Profinet Modbus-TCP Ethernet: RJ-45 for external connection
	Input contacts	N°6 inputs for acquisition of "External Start" command relative to the line to be analyzed.
	Output contacts	for signalling alarms and "Start Stand-by" status, with contact rating of 24V/2A DC/DC
	Optional outputs	optional relays output for On/Off control
Supplies	Power supply	AC 115/230V ±10% 50...60Hz 200VA
	Pneumatic	Dehydrated air 6...10bar
	Water	Water 1.5...4 bar Estimated consumption ~2 liters/analysis

TECHNICAL FEATURES

Display	10" touchscreen	
Execution	Structure in INOX 304 stainless steel (protective coating). Protection IP65. Separate and insulated compartments between hydraulic parts / analysis cell / electrical components.	
Pump section	Possibility to install between 1 and 6 pumps	
Tank section	Capacity to house up to 8 plastic 5-litre tanks or 6 10-litre tanks. Minimum level controlled by ball-cock and alarm system.	
Dispenser section	Possibility to install between 1 and 3 glass or PES syringes with 5ml or 10ml capacity for correct dosage of reagents and product to be analysed. Fully automatic filling, emptying and cleaning cycles.	
Analysis Bowl	Cylindrical bowl in transparent Plexiglas or PES fitted with electromechanical stirrer for mixing reagents. Possibility to insert up to 3 different electrodes for single or combined readings. Automatic cleaning cycle.	
Weight	~ 190 kg (~419 lb)	
Fluid Operating Limits	Temperature:	0°C...+45°C (+35°F...+113°F)
	Pressure:	1...6 bar (14.5...87 psi) at 20°C (68°F)

More products
for the analysis of
liquids concentration

UR24 process refractometer Ultimate



Inline - Brix, nD, User Scale

UR62 process refractometer Basic



Inline - Brix, nD, User Scale

LR05 Lab refractometer



Laboratory - Brix, nD,
User Scale



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