TECHNICAL-NORMATIVE SPECIFICATIONS

Environmental features

Temperature limits:

Environment:	-10...+45 °C (14…113 °F).
Storage:	-20...+70 °C (-4…+158 °F).

Humidity limits:

Environment:	5%...95% (R.H without condensate):
Storage:	5%...95% (R.H without condensate):
Altitude limits:	<2000 m a.s.l.
Degree of Protection:	IP65 in accordance with EN60529.

Conformity to Directives

EMC:	2004/108/EC and subsequent amendments.

* CE marking of conformity to EU Directives.

OPERATING SPECIFICATIONS

Application: Display and control of qualitative parameters on process lines producing sugar-sweetened or diet carbonated soft drinks, alcoholic beverages, non-carbonated soft drinks, beer and mineral waters.

Management, by means of the relative Analysis

Units, of:

A) Continuous refractometric measurement of the Refractive Index and display in the selected scale (REGULAR BRIX, DIET BRIX or % STANDARD) of the relative concentration, with temperature compensation already applied.

B) Continuous refractometric measurement of the Zeiss degree.

C) Measurement of the dissolved CO_2 value, in the selected scale [g/l or v/v (Gas/Vol)], based on the absorption of IR rays or the Saturation Pressure measurement, depending on the appliance connected (UC07/08).

D) Sonic density measurement.

E) Measurement of the pH, µS, OX parameters.

Data processing:
- Calculation, for sugar-sweetened soft drinks, of the % of sugar inverted at the time of bottling.
- Prediction of the Brix in totally inverted soft drinks (Brix with totally inverted sugar).
- Automatic update of the production target based on the sugar inversion %.

- For sugar-sweetened beverages containing alcohol, calculation of the alcohol content expressed in ALC/V.
- Calculation of the alcohol content expressed in w/w, of the value of the real extracts and original extracts.

Type of function:
1) Interfacing with IB07, IB08 or Ur29, UR27, UC07, UC08, US01 single Analysis Units. Options for the display, calibration, diagnostics and setup of operating parameters.
2) Acquisition, via Analog inputs, of mV, mA, Pressure and temperature signals.
3) Activation of two programmable alarm contacts.
4) Acquisition of two programmable input contacts.
5) Management of 3 serial outputs one of which is personalizable via HMS module.

GENERAL SPECIFICATIONS

Power supplies

Electric: -AC 24V ±10% 50...60Hz 1A Max.
-DC 24V ±10% 1A Max.

Connection box without Transformer (optional):
Power supply according to MP03 specifications.
Terminal board connection.

Connection box with Transformer (optional):
AC 100…240V ±10% 50...60Hz 25VA.
Terminal board connection.

Interfaces

Analog: - 2 active output channels 0...20mA or 4...20mA (470Ω max.) configurable in the "Max. and Min. full scale" values.
- 4 auxiliary input channels.

Digital: - RS485 for connection to the "M8" remote control unit.
- RS485 for connection to Maselli analyzers.
- PROFIBUS DP or ETHERNET/IP (optional).

Inputs: 2 configurable inputs.

Outputs: 2 relay outputs for alarm signals with contacts of a maximum capacity of 1A/24V DC/AC.

All interfaces are optically isolated from the power supply (VDEO160) and are completely configurable from the keypad. All connections must be made via connections to connectors.

CONSTRUCTION FEATURES

Execution: AISI 304 casing for wall or post mounting.

Function: System management, data processing, operator interface, interfacing with analysis unit, interfacing with additional elements and with the process line.

Electronic section:

- Central "CPU" unit with microprocessor with management software on Flash, updatable via PC; communication, interfaceability with analysis unit via serial RS485 protocol.
- Processing and indication of measurements, software menu display, diagnostics menus, error messages and operating status indicator icons on graphic backlit LCD 320x240 pix display with "LCD Saving" function and touch screen.
- Multi-level programming software complete with password protection for certain functions

and check menu.
- 5 language options (Italian, English, German, Spanish, French) for menu and message display.
- Process temperature expressed in "°C" or "°F" and pressure expressed in "kg/cm²" or "psi".
- Possibility to store and call up at any time groups of parameters known as "recipes" containing production parameters.

Dimensions and weight:

250 (b) x 120 (h) x 160 (d), 3 kg.

ACCESSORIES

- Different fasteners for installation on the wall or piping (diameter 40 - 100 mm).