The **BL-01** system for evaluating must (crushed grapes) on delivery, directly measures the characteristic parameters on the transfer line between the grape crusher and the fermenter. The application of this system can be executed when crushing is performed batch by batch.

The system can be configured to analyze 1 to 4 lines. The parameter detected by the **BL-01** is the degrees Brix value. The measurement is made using a **UR-24** refractometer installed on the main piping downline from the crusher, which then transmits the measured values to a control console (Personal Computer) connected via a RS485/USB converter.

The system is made up of:
- Between 1 - 4 refractometer units to detect the °Brix of the must.
- Between 1 - 4 connector fittings to be installed on the main pipe (diameter 80 or 100 DIN).
- An interconnection box.
- A control console which receives the data sent by the refractometric units and then processes and stores it in a special database and transmits it to the Central Computer.
- The control console is usually installed on a platform or box on which a trained operator works, managing between one to four crushing lines in the manner indicated in the Operating Cycle described below.

The system can be competed with a pH measurement.
**TECHNICAL FEATURES**

**Refractometric measurement limits:**
- 1.3403...1.3902 nD
- 5...35 degrees Brix
- 4...30 degrees Babo
- 0...22 degrees Alcohol
- 20...153 degrees Oechsle
- 3...20 degrees Baumé
- 3...32 kg/q

**Refractometric measurement accuracy:**
±0.10 Brix or equivalent for corresponding scales.

**pH measurement limits (optional):**
- 2...14 pH

**pH measurement accuracy:**
±0.05 pH units

**Product temperature:**
5...45°C with automatic temperature compensation

**Line pressure**
max. 7 bar (101 psi) at 65 °C (149 °F)

**Interfaces:**
- Digital:
  - USB converted by RS422/485 for serial connection of the UR24 Units
  - USB for computer/printer connection
  - USB converted by 485 for connection with remote repeaters (optional)
  - Ethernet for connection to a Central Computer if envisaged

**Inputs:**
1 input for “Line Stopped” (HOLD) for each measurement line.

**Power supplies**
UR24 interconnection box:
L/N/PE AC 85...264V, 50...60Hz, 60W

Personal Computer and Printer:
L/N/PE AC 115...230V, 50...60Hz, 50W

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