

CES 488 LOW CORESTA PERMEABILITY TESTER

FEATURES

AUTO ZERO FOR BOTH PRESSURE AND CORESTA READINGS

AUTOMATIC PRESSURE CONTROL

FASTER ACQUISITION OF DATA

The CES 488 Low Coresta Permeability Tester was designed to provide an accurate reading of the air flow through various types of paper. Air is drawn through the paper in such a manner to ensure that a differential pressure of 1 centibar is across the paper when the flow is read.

The CES 488 uses a proprietary control algorithm that insures that the head pressure is maintained at 1 centibar. The controller was optimized to insure fast and accurate acquisition of data reading without the need for the user to make adjustments.

The CES 488 provides the user with all the necessary signals to make the actual flow calculations with a user provided PC or PLC. This allows the user to manipulate the data as needed for data logging, product profiling, or report generation.

SPECIFICATIONS

TEST METHOD: CORESTA

MEASURING RANGE: .2 TO 60 CORESTA UNITS

Other ranges available upon request

ACCURACY: $\pm 1\%$ FS \pm LSD

REPEATABILITY: $\pm .25\%$ FS \pm LSD

SAMPLE PRESSURE DIFFERENTIAL: 1 CENTIBAR

ZEROING: Automatic for pressure and flow

SPAN CALIBRATION: Automatic

FLOW SENSOR: NIST Traceable

OUTPUTS: Local Display & RS232

AIR SUPPLY: 30 PSIG, Clean, dry air at 4 SCFM maximum.
User provided tempering tank required.

OPERATION

The CES 488 Low Flow Permeability tester needs to warm up and stabilize to achieve optimum results. Turn the power on and allow the unit to run for at least 10 minutes. After allowing the unit to stabilize, the user should run a calibration cycle. Press the **CALIBRATE** button on the front of the unit. The CES 488 will perform a self calibration cycle. The unit will display the results of the calibration once it has finished.

To run a test, first insure that the **RANGE** switch is in the proper position for the paper that will be tested. Insert the paper in the test head and press the start switch. The head will clamp and the unit will perform auto zeros as needed before the test will start. During the test the status of the tester will be displayed on the remote display. The results will be displayed on the remote display at the end of the test cycle.

ERROR MESSAGES

During a test cycle if the unit detects an error condition, the error will be displayed on the remote display. Head not clamping, flow range errors or auto zero failures will all cause the test to abort. Once the errors are corrected press the start switch to continue running tests.

CALIBRATION

If the unit needs to AUTOZERO everytime a test is run, the zeros need to be adjusted. Remove the side panel and locate the flow and pressure transmitters. Place the calibrate switch in the FLOW/PRESSURE position. Adjust the zero pots on the transmitters until the display reads zero for flow and pressure. Return the switch to the run position.