



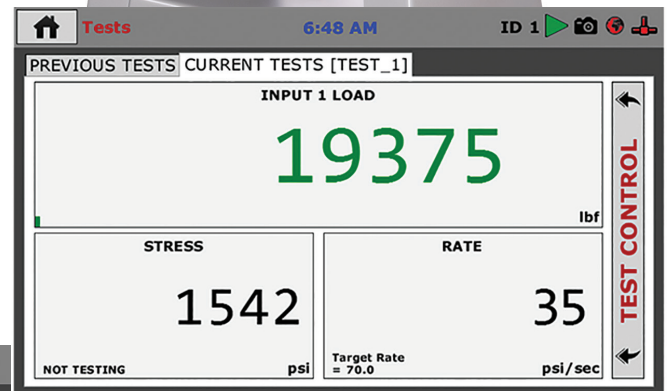
HCM-5090.3F Digital Indicator for Concrete Compression Frames

Humboldt's HCM-5090 Digital Indicator for concrete compression frames is designed to make fast work of testing cylinders, cubes and beams. The HCM-5090 provides an easy-to-use testing work flow—just choose the test standard you wish to run and the indicator will quickly guide you through the setup, including the compression machine's manually-actuated hydraulic pump. And, the indicator's "Fast Testing" feature allows you to speed up your testing operation between breaks—you just have to load the new sample and the indicator will keep track of all your tests. It even gives each test a new sequential name.

Humboldt's HCM-5090 Indicator is now available as an option for all Humboldt concrete compression machines using a manually-controlled pump. It features a 7" high-resolution, color, touch-screen, which provides accurate, precision machine operation. It also provides specific test control and data acquisition for Humboldt compression machines.

Retrofit Your Frame

The HCM-5090 Digital Indicator is perfect for retrofitting previously installed compression frames by most manufacturers. The HCM-5090 includes mounting hardware and is also available with a compatible transducer, if your application requires it.



Test Setup Wizard 9:55 AM

TYPE **SAMPLE** BREAK

Select Test Type:
Please select the type of test you will be running.

ASTM ☒ C39 **BS** ☐ EN 12390-3

☐ C78

☐ C293

☐ C469

☐ C496

☐ C1019

☐ C109/C109M

Input 1 Calibration 2:24 PM ID 44

1. SENSOR DETAILS 2. LIMITS 3. MULTI POINT 4. NAME

Create Multi-Point Calibration:
Please note a minimum of 2 points are required for a successful calibration.

POINT	APPLIED	A/D COUNTS
0	0	12852
1	50000	24401
2	10000	35649
3	150000	38348
4	200000	42120
5	250000	50520
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0

Entry Method
☒ QUICK CLICK
☐ MANUAL ENTRY

Calibration
Custom

Clear Point
[X]

[←] [→]

HCM-5090 Digital Indicator



The HCM-5090 is a manually-operated digital indicator that provides many of the features of the HCM-5070 and HCM-5080 digital controllers, such as pre-programmed standards and data acquisition capabilities.

FEATURES:

Provides two channel inputs for load, which allows for the control of two separate compression frames

Provides two additional channel inputs for displacement, which allows the performing of extensometer and compressometer testing

7", high-resolution color touch-screen display with live readout, graphical and tabular display

Easy test setup, just choose the standard you wish to test for and the controller will walk you through the complete setup

Provides data acquisition of one reading per second

Integral storage within the controller of up to 1000 tests and 3000 points per test

Simple, Fast and accurate machine calibration

Displays in Imperial or metric numbers

The HCM-5090 is pre-programmed to run the following tests: ASTM C39, ASTM C78, ASTM C293, ASTM C469, ASTM C496, ASTM C1019, ASTM C109/C109M, BS EN 12390-3.

Humboldt HCM-5090 Specifications

HCM-5090.3F	120/220V 50/60HZ
Display	7" (178mm) VGA (480 x 800) Resistive-touch screen
Processor	Dual 32-bit ARM
RAM	4GB
Analog to digital converter	24 bit
Data acquisition	4 Channels
Data Speed	1000Hz (1kH)
Logging speed	1 reading per second
Multi-test storage	1000
Points per test	3000

HCM-5090 Controller Includes

HCM-5090.3F	Digital Indicator
HCM-5090BR	Mounting Bracket

Accessories for HCM-5090

HCM-4177	Pressure Transducer, 10,000 psi with Cable and Plug
HCM-4177.1	Pressure Transducer, 10,000 psi
HCM-4177.4	Cable for Pressure Transducer 10,000 psi with Plug