

# 2465 Piston Gauge with Autofloat Controller Initialize Test Example in COMPASS for Pressure



*This procedure is intended for Fluke Calibration customers trained on use of 2465 Piston Gauge, 2465 Autofloat Controller and COMPASS for Pressure Calibration Software.*

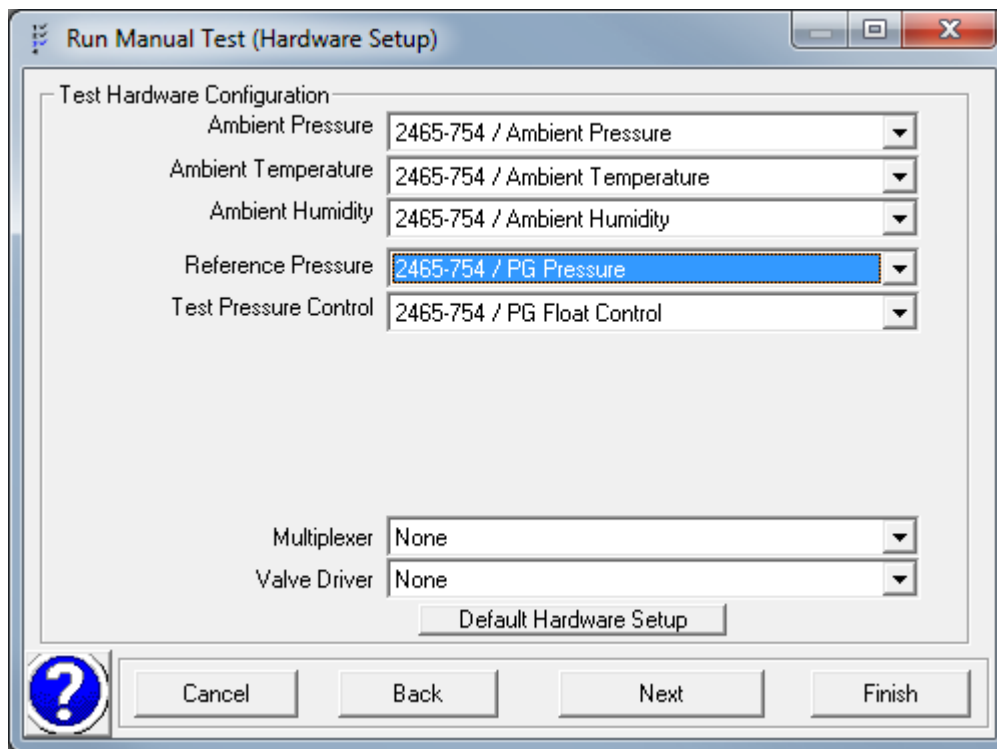
## Purpose

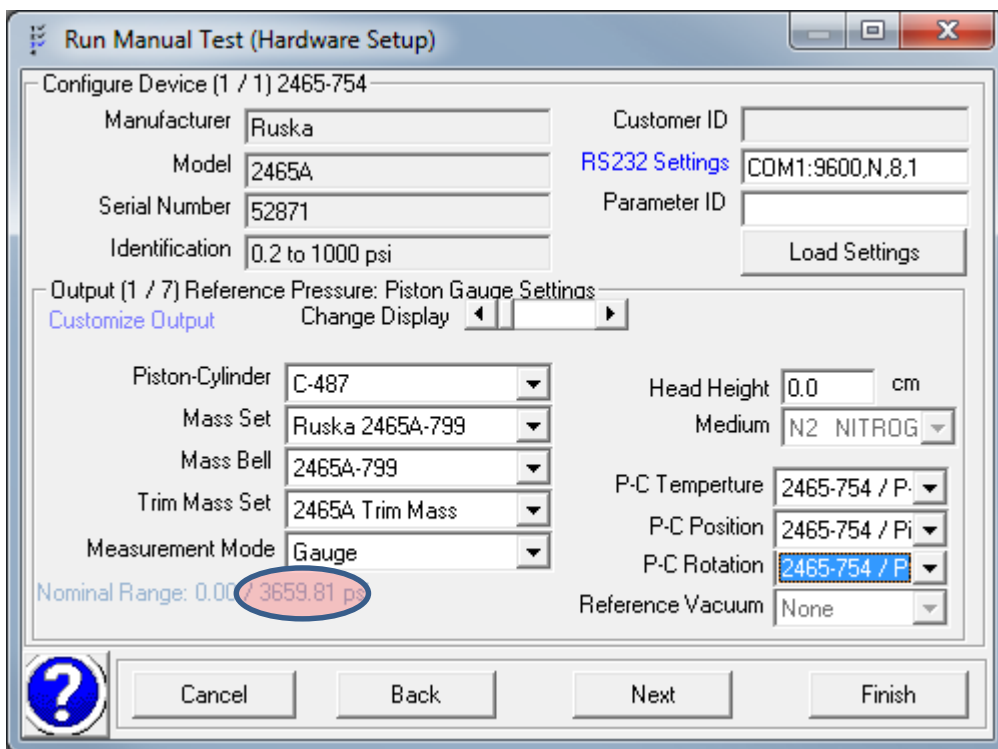
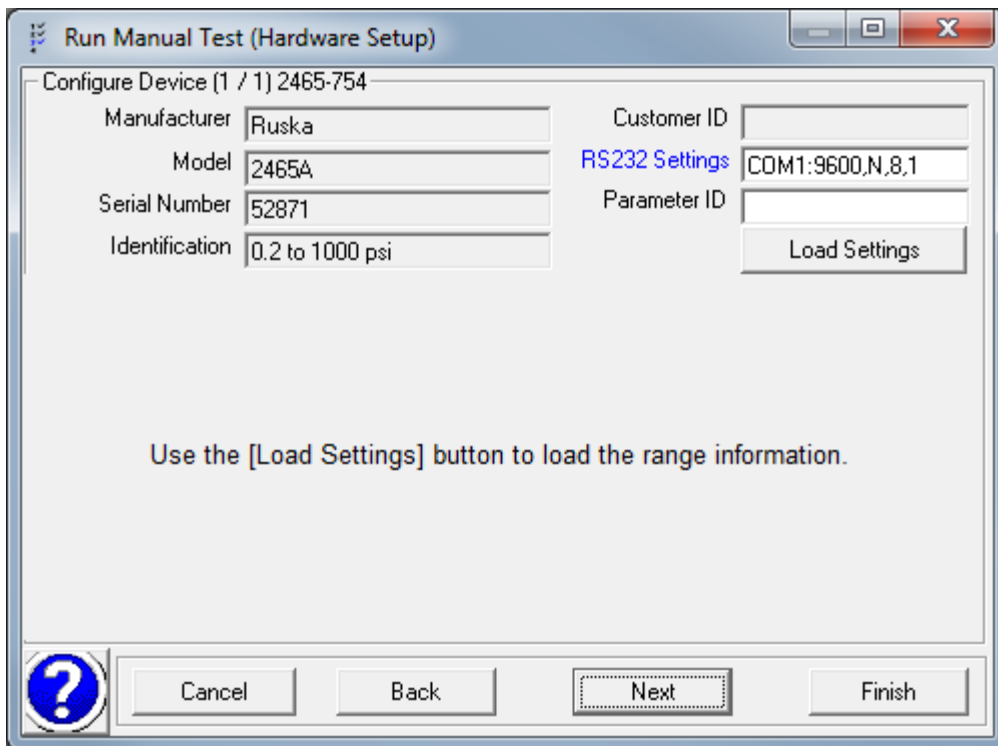
This document instructs how to initialize a manual test or test definition in COMPASS for Pressure when using a 2465 Piston Gauge with Autofloat Controller. Also see document “2465 Piston Gauge with Autofloat Controller Setup in COMPASS for Pressure” and other documents in the Knowledge Base.

## Instructions

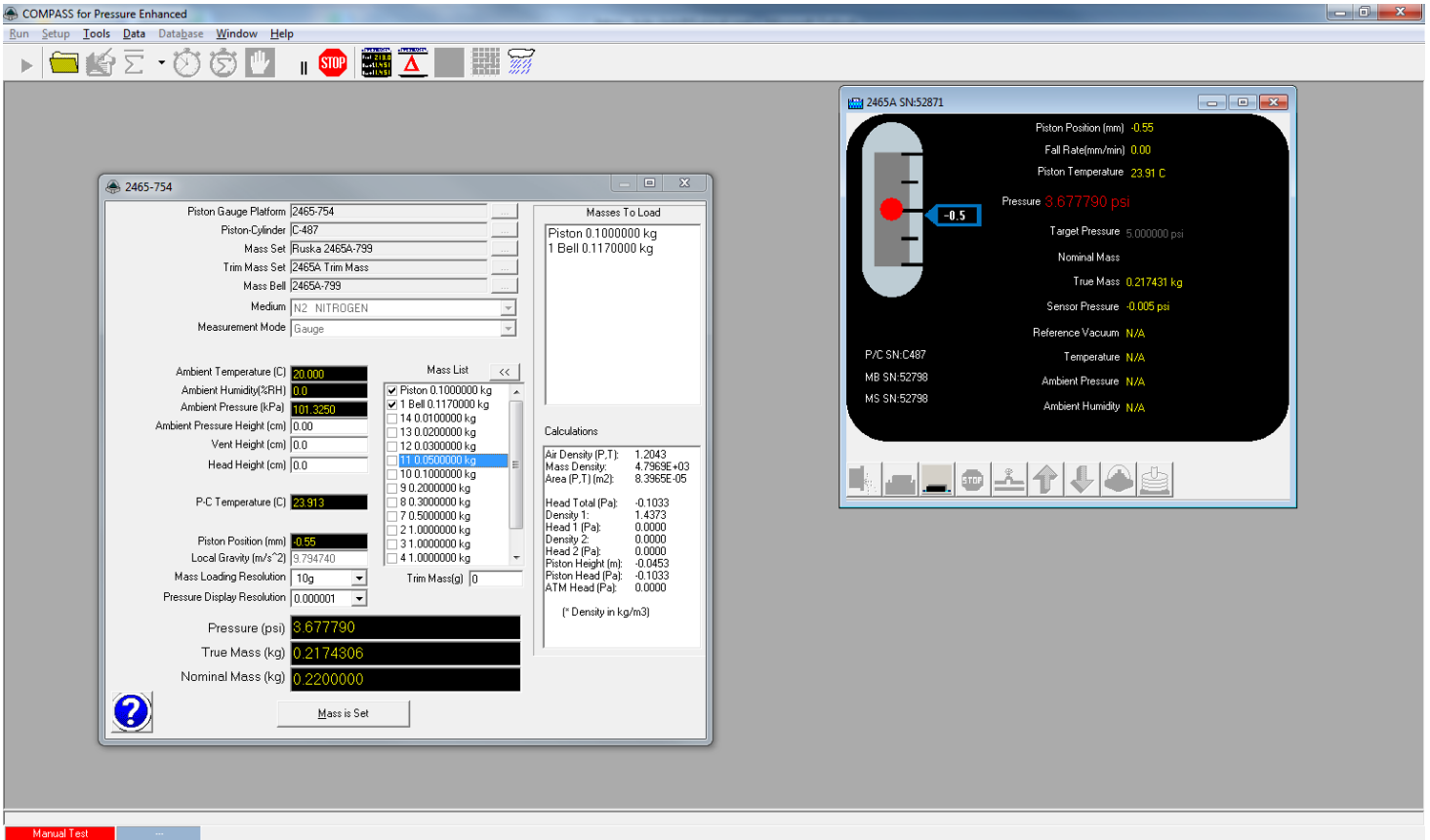
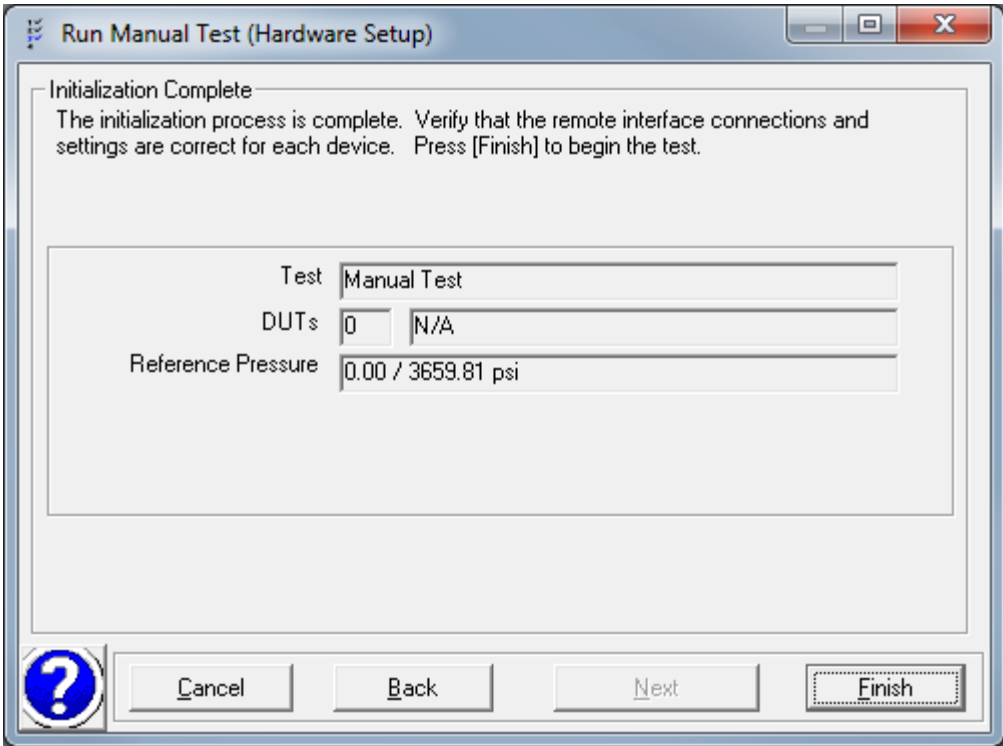
Setup the piston-cylinder, mass set and trim mass set (if applicable) setup files first so they can be chosen in the Autofloat controller setup. See page 3 for examples.

## 2465 Test Initialization





Nominal Range treats trim mass as kg instead of g. This will be fixed in the next COMPASS release. This only affects this window, not the metrological values when COMPASS is running. To see the true Nominal Range temporarily select None for Trim Mass Set.



COMPASS for Pressure Enhanced

2465-754

Piston Gauge Platform: 2465-754  
 Piston-Cylinder: C-487  
 Mass Set: Ruska 2465A-799  
 Trim Mass Set: 2465A Trim Mass  
 Mass Bell: 2465A-799  
 Medium: N2 NITROGEN  
 Measurement Mode: Gauge

Ambient Temperature (C): 20.000  
 Ambient Humidity(%RH): 0.0  
 Ambient Pressure (kPa): 101.3250  
 Ambient Pressure Height (cm): 0.00  
 Vent Height (cm): 0.0  
 Head Height (cm): 0.0  
 P/C Temperature (C): 23.984  
 Local Gravity (m/s<sup>2</sup>): 9.794740  
 Mass Loading Resolution: 10g  
 Pressure Display Resolution: 0.000001  
 Piston Position (mm): -0.55  
 True Mass (kg): 6.4274198  
 Nominal Mass (kg): 6.4000000

Masses To Load

Piston	0.1000000 kg
1 Bell	0.1170000 kg
14	0.0100000 kg
13	0.0200000 kg
12	0.0300000 kg
11	0.0500000 kg
10	0.1000000 kg
9	0.2000000 kg
8	0.3000000 kg
7	0.5000000 kg
6	1.0000000 kg
5	1.0000000 kg
4	1.0000000 kg
3	1.0000000 kg

Calculations

Air Density (P,T): 1.2043  
 Mass Density: 7.6382E+03  
 Area (P,T) (m<sup>2</sup>): 8.3966E-05

Head Total (Pa): -3.7498  
 Density 1: 9.6640  
 Head 1 (Pa): 0.0000  
 Density 2: 0.0000  
 Head 2 (Pa): 0.0000  
 Piston Height (m): -0.0453  
 Piston Head (Pa): -3.7498  
 ATM Head (Pa): 0.0000

(\* Density in kg/m<sup>3</sup>)

2465A SN:52871

Piston Position (mm): -0.55  
 Fall Rate(mm/min): 0.00  
 Piston Temperature: 23.98 C  
 Pressure: 108.727196 psi  
 Target Pressure: 5.000000 psi  
 Nominal Mass:  
 True Mass: 6.427420 kg  
 Sensor Pressure: -0.007 psi  
 Reference Vacuum: N/A  
 Temperature: N/A  
 Ambient Pressure: N/A  
 Ambient Humidity: N/A

P/C SN: C487  
 MB SN: 52798  
 MS SN: 52798

Press the WinPrompt icon to see the Status window (to calibrate Autofloat sensors, etc.)

Mass Bell Editor

Mass Bell: 2465A-799

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Header | Calibration | Mass Bell

Mass \* 1.171384E-1 kg

Mass Resolution \* 0.0000001 kg

Average Density \* 3.100E3 kg/m<sup>3</sup>

Mass Bell Tolerance \* 5.855E-7 kg

D (Hanger Mass Depth) 1.9400 in

Sleeve Offset 0.0000 in

Close

End of Procedure

**Fluke Calibration.** Precision, performance, confidence.™

Electrical RF Temperature Pressure Flow Software

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