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DISTINGUISHED
SERVICE TO
INDUSTRIES
WORLDWIDE



Bureau Veritas Certification

**NAGMAN INSTRUMENTS AND ELECTRONICS
PRIVATE LIMITED**

HEAD OFFICE: 170/1A2, CHENNAI BANGALORE HIGHWAY ROAD, SEMBARAMBAKKAM,
CHENNAI - 600 123, TAMIL NADU, INDIA.

(This is a multi-site certificate, additional sites) are listed on the next page(s))

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System
of the above organization has been audited and found to be in accordance with the
requirements of the Management System Standard detailed below.

Standard
ISO 9001:2015
Scope of certification

DESIGN, DEVELOPMENT, MANUFACTURE, SALES, DESPATCH AND SERVICE OF
CALIBRATION EQUIPMENT LIKE TEMPERATURE CALIBRATORS, PRESSURE
CALIBRATORS, SIGNAL CALIBRATORS, COMPANION TESTERS, PNEUMATIC &
HYDRAULIC HAND PUMPS AND TEST BENCH/WORK STATIONS
MANUFACTURE OF FLOW AND LEVEL CALIBRATION SYSTEMS

Original cycle start date: 16 February 2019
Expiry date of previous cycle: 14 September 2021
Recertification Audit date: 08 September 2021
Recertification cycle start date: 22 January 2022
Subject to the continued satisfactory operation of the organization's Management System,
this certificate expires on: 14 September 2024
Certificate No. IND 22.8696QMU Version: 1 Revision date: 22 January 2022

Signed on behalf of BUREAU VERITAS UK Branch
Jagdish H. MAMANI
Head - CERTIFICATION, South Asia
Commodities, Industry & Facilities Division



**EURO
CERT**
EUROPEAN INSPECTION AND CERTIFICATION COMPANY S.A.

CERTIFICATE OF CONFORMITY
FULLNESS EXAMINATION OF TECHNICAL FILE

Certificate No.: LVM02116
Issue Date: 17/03/2021
Expiry Date: 18/03/2026
Applicant: NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED,
27th KM STONE, CHENNAI BANGALORE NATIONAL HIGHWAY,
CHEMMAMANGALAM, CHENNAI - 600123, TAMILNADU, INDIA
Manufacturer (Name & Address): Same as Applicant
Test Report No.: ITC/TEST/NN/2012/11, ITC/TEST/NN/2103/05
TCI No.: ITC/NEP/AM/001
Product Description: MULTIFUNCTION PROCESS CALIBRATOR
Model(s): MFC 40
Directive(s): Low Voltage Directive 2014/35/EU
Standard(s): Electromagnetic Compatibility Directive 2014/30/EU,
EN 61326-1:2016/A1:2017, EN 61326-1:2013, EN 61326-1:1991/A2:2013

This is to certify that, upon the relevant application of the above-mentioned company, EUROCERT
in this Party Authority has reviewed the Technical Construction File of the described product which
is bound to fulfil the basic health and safety prerequisites of above-mentioned Directive(s).

- Notes:**
- The manufacturer should have a EU Declaration of Conformity according to the basic requirements of the applicable and relevant EC directives.
 - The holder of the certificate shall use it in connection with the EU declaration of conformity.
 - The CE marking can be affixed on the above-mentioned product with the manufacturer's responsibility, if all relevant and applicable EU directives are complied with.
 - All modifications to the Technical File should be first submitted to the Third-Party Inspection Authority to ensure further validity of the attestation.
 - This certificate is valid only for the product and configuration described above.

Please check the validity of the certificate from our website using the password: AqHqy000

On behalf of EUROCERT
GEORGI N. SPENCER
Director of Development

Third-Party Authority Stamp: NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED,
27th KM STONE, CHENNAI BANGALORE NATIONAL HIGHWAY,
CHEMMAMANGALAM, CHENNAI - 600123, TAMILNADU, INDIA
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**Institute of Testing and
Certification (INDIA)
Private Limited**

Head Office: 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 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904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 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1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1



Dry Block - Ultra-Negative Temperature

UNFC-100E

Range -100°C to +25°C
Resolution 0.01°C (+25 to -19.99°C)
0.1°C (-20°C from -100°C)
Accuracy $\pm 0.3^\circ\text{C}$
Stability $\pm 0.05^\circ\text{C}$

Dry Block - Sub-Zero Temperature

R-40 / R-40 Plus

Range -35°C from Ambient to 123°C /
-35°C to 120°C (@ 22°C)
Resolution 0.1°C
Accuracy $\pm 1^\circ\text{C}$ / $\pm 0.5^\circ\text{C}$
Stability $\pm 0.2^\circ\text{C}$

MTC 40 / MTC 40 Plus

Range -40°C from Ambient to 123°C /
-35°C to 120°C (@ 22°C)
Resolution 0.1°C
Accuracy $\pm 0.3^\circ\text{C}$
Stability $\pm 0.05^\circ\text{C}$
Measurement Capability

Metcal 40 / Metcal 40 Plus

Range -10°C to 120°C / -30°C to 120°C (@ 22°C)
Resolution 0.01°C
Accuracy $\pm 0.2^\circ\text{C}$
Stability $\pm 0.02^\circ\text{C}$
Measurement Capability

Dry Block - Low Temperature

350-H / 350-H2

Range 10°C above Ambient to 350°C
Resolution 0.1°C
Accuracy $\pm 1^\circ\text{C}$ / 1.2°C
Stability $\pm 0.3^\circ\text{C}$ / $\pm 0.4^\circ\text{C}$



Dry Block - Medium Temperature

ETC 600

Range 50°C to 600°C
Resolution 1°C
Accuracy $\pm 0.1\%$ F.S. + 1 digit
Stability $\pm 0.5^\circ\text{C}$



MTC 650

Range 50°C to 650°C
Resolution 0.1°C
Accuracy $\pm 0.6^\circ\text{C}$
Stability $\pm 0.05^\circ\text{C}$
Measurement Capability



800-H

Range 50°C to 800°C
Resolution 0.1°C
Accuracy Upto 600°C $\pm 1.5^\circ\text{C}$; Above 600°C $\pm 2.2^\circ\text{C}$
Stability $\pm 0.5^\circ\text{C}$

Dry Block - High / Very High Temperature

1200 HN

Range 300°C to 1200°C
Resolution 1°C
Accuracy Better than $\pm 3^\circ\text{C}$
Stability Better than $\pm 0.5^\circ\text{C}$ (below 600°C)
Well Diameter 45 mm
Immersion Depth 150 mm

Metcal 1200

Range 150°C to 1200°C
Resolution 0.1°C
Accuracy $\pm 2^\circ\text{C}$
Stability $\pm 0.3^\circ\text{C}$
Measurement Capability

* Typical Photos

TEMPERATURE SERIES



MTC 350

Range 50°C to 350°C
Resolution 0.1°C
Accuracy $\pm 0.4^\circ\text{C}$
Stability $\pm 0.05^\circ\text{C}$
Measurement Capability



650-H

Range 20°C above Amb. to 650°C
Resolution 0.1°C
Accuracy $\pm 1.5^\circ\text{C}$
Stability $\pm 0.5^\circ\text{C}$



Metcal 650

Range 50°C to 650°C
Resolution 0.01°C
Accuracy $\pm 0.4^\circ\text{C}$
Stability $\pm 0.04^\circ\text{C}$
Measurement Capability

Ranges
from
Ultra Negative
to
Very High
Temperature

MTC 1200

Range 300°C to 1200°C
Resolution 1°C
Accuracy $\pm 2^\circ\text{C}$
Stability $\pm 0.5^\circ\text{C}$
Measurement Capability

1500 HN

Range 500°C to 1500°C
Resolution 1°C
Accuracy $\pm 0.5\%$ of Span*
Stability $\pm 2^\circ\text{C}$
Ceramic Dry Block Dia 55 mm OD
Probe Immersion Depth 250 mm

TEMPERATURE SERIES

Stirred Baths (Liquid / Powder)

Micro Oil Bath

MOB 250

Range 20°C above Ambient to 250°C
Resolution 0.1°C
Accuracy $\pm 0.6^\circ\text{C}$
Stability $\pm 0.1^\circ\text{C}$

Fluidized Bath

FB-06L

Range 20°C above Ambient to 600°C
Resolution 1°C
Accuracy $\pm 1.5^\circ\text{C}$
Stability $\pm 0.5^\circ\text{C}$

Black Body Calibration Sources

BBS-VL

Range 10°C to 45°C
Accuracy Within 0.75% F.S.
Emissivity 0.98; Aperture Dia 30 mm
Stability $\pm 0.5^\circ\text{C}$; Resolution 0.1°C

BBSM

Range 20°C above Ambient to 600°C
Accuracy Within 0.5% F.S. (Min. 2°C)
Emissivity 0.98; Aperture Dia 25 mm
Stability $\pm 0.5^\circ\text{C}$; Resolution 1°C

BBSH

Range 500°C to 1200°C
Accuracy Within 0.5% F.S. (Min. 3°C)
Emissivity 0.98; Aperture Dia 25 mm
Stability $\pm 0.5^\circ\text{C}$; Resolution 1°C

IR Thermometers

NIT 55

Range -50 to 550°C
Accuracy $\pm 1.5^\circ\text{C}$
Resolution 0.1°C/°F
Repeatability $\pm 1^\circ\text{C}$
Distance to Spot Size 12:1
Emissivity : 0.1 ~ 1.0 adjustable

NIT 75

Range -50 to 750°C (-58 to 1382°F)
Accuracy $\pm 1.5\%$ or $\pm 1.5^\circ\text{C}$
Resolution : 0.1°C/°F
Repeatability $\pm 1\%$ or $\pm 1^\circ\text{C}$
Distance to Spot Size 12:1
Emissivity : 0.95 Preset, 0.1 ~ 1.0 adjustable

Thermal Imager

Range -20°C to 450°C
Accuracy $\pm 2^\circ\text{C}$
Display Resolution 640 x 480
Display 3.5" full angle TFT display screen
Image Resolution 320 x 240
Thermal Sensitivity 0.07°C
Emissivity Adjustable from 0.01 to 1.0

Micro Liquid Bath

MLB-30

Range -30°C to 100°C
Resolution 0.1°C
Accuracy $\pm 0.6^\circ\text{C}$
Stability $\pm 0.2^\circ\text{C}$

Hot Cold Bath

HC-DB-35

Range -35°C from Amb. to +123°C (Cold Bath)
50 to 350°C (Hot Bath)
Resolution 0.1°C
Accuracy $\pm 1^\circ\text{C}$
Stability $\pm 0.2^\circ\text{C}$

BBSL

Range 10°C above Ambient to 350°C
Accuracy Within 0.5% F.S. (Min. 1°C)
Emissivity 0.98; Aperture Dia 25 mm
Stability $\pm 0.5^\circ\text{C}$; Resolution 0.1°C

Ideal
for
Infrared
Thermometer
Calibration

BBSD (Dual Chamber)

Range 50 to 300°C (Chamber 1);
250 to 600°C (Chamber 2)
Accuracy Within 0.5% F.S. (Min. 1°C / 2°C)
Emissivity 0.98; Aperture Dia 25 mm
Stability $\pm 0.5^\circ\text{C}$; Resolution 0.1°C / 1°C

NIT 55E

Range -50 to 550°C
Accuracy $\geq 100^\circ\text{C} \pm 2^\circ\text{C}$
Resolution : 0.1°C/°F
Repeatability $\pm 1^\circ\text{C}$
Distance to Spot Size 12:1 16:1 50:1
Emissivity : 0.1 ~ 1.0 adjustable
K Type Thermocouple Measurement Range -50 to 500°C

NIT 110 / NIT 160 / NIT 185

Range : -50 to 1100°C / 1600°C / 200 to 1850°C
Accuracy : $\pm 1.5^\circ\text{C}$
Resolution : 0.1°C/°F
Repeatability : $\pm 1^\circ\text{C}$;
Distance to Spot Size : 50:1 / 50:1 / 80:1
Emissivity : 0.95 Preset, 0.1 ~ 1.0 adjustable



PRESSURE SERIES

Analog Gauges



APG Series

Ranges (in kg/cm² or bar)
0 to 1, 2.5, 4, 6, 10, 16, 25, 40, 60, 100,
160, 250, 400, 600, 1000
Accuracy ±0.25% F.S.
Beryllium Copper / SS316
3/8", 1/2" BSP / NPT Connection
Bottom or Back Mounted

Digital Pressure Indicators

MPCE-I-P / MPC-I-P / MPC-I-P+ **ABS Type Available** Pneumatic

Ranges -1 to 2 / 10 / 20 / 35 / 40 / 60 bar
Accuracy ±0.1% F.S. / ±0.05% F.S. / ±0.025% F.S. **IP 52 RATED**
Resolution Minimum 4½ / 5 / 5 digits
Display 7 Segment FSTN (Large) Display
Selectable Engineering Pressure Units

Marine Calibrators

MPCE IN100 Series Pneumatic

Ranges -0.90 to 2 / 10 / 25 / 35 / 40 / 60 bar
Accuracy ±0.1% F.S.
Resolution Minimum 4½ digits
Display 7 Segment 5 Full Digit High Contrast
Customized LCD Display

Handheld Pressure Calibrators

MPCE-P / MPC-P / MPC-P+ **ABS Type Available** Pneumatic

Ranges -0.90 to 2 / 10 / 20 / 35 / 40 / 60 bar **IP 52 RATED**
Accuracy ±0.1% F.S. / ±0.05% F.S. / ±0.025% F.S.
Resolution Minimum 4½ / 5 / 5 digits
Display 7 Segment FSTN (Large) Display **DNV-GL**

Portable Pressure Calibrators

PPC-P / PPC-P+ Pneumatic

Ranges -0.85 to 2 / 7 / 10 / 20 bar **DNV-GL**
Accuracy ±0.05% F.S. / ±0.025% F.S.
Resolution Minimum 5 digits
Display Large Graphic Display

PPC-D / PPC-D+ Pneumatic & Hydraulic

Ranges -0.85 bar Vacuum to 20 bar (Pneumatic) &
0 to 400 bar (Hydraulic) (Oil) **DNV-GL**
Accuracy ±0.05% F.S. / ±0.025% F.S.
Resolution Minimum 5 digits
Display Large Graphic Display

Differential Pressure Manometer

DPM

Ranges 0 to 25 / 70 / 200 / 300 / 500 / 1000 / 2000 mbar
Accuracy ±0.2% F.S. (25/70 mbar)
±0.1% F.S. (200/300/500 mbar) **IP 52 RATED**
±0.05% F.S. (1000/2000 mbar)
Resolution Minimum 4½ / 5 / 5 digits
Display 7 Segment FSTN (Large) Display

Semi-Automatic Pressure Calibrator SAPC-20

Ranges -0.85 to 20 bar
Measurement Accuracy ±0.05% FS
Temperature Compensation 0 to 50°C (Automatic)
Resolution Minimum 5 Digits
Display Large Graphic Display
Pressure Units Kg/cm², Bar, mBar, PSI, mmH₂O, mmHg, cmH₂O, inH₂O, ftH₂O, mmHg, inHg, Atm, Mpa, Kpa, Pa

Marine Indicators

MPCE-IN100

Ranges Pneumatic -1 to 2 / 10 / 25 / 35 / 40 / 60 bar
Hydraulic 0 to 70 & upto 1000 bar
Accuracy ±0.1% F.S. **DNV-GL**
Resolution Minimum 4½ digits
Display 7 Segment 5 Full Digit High Contrast
Customized LCD Display

MPCE-I-H / MPC-I-H / MPC-I-H+ **ABS Type Available** Hydraulic

Ranges 0 to 70 / 100 / 200 / 250 / 350 / 700 / 1000 bar
Accuracy ±0.1% F.S. / ±0.05% F.S. / ±0.025% F.S. **IP 52 RATED**
Resolution Minimum 4½ / 5 / 5 digits
Display 7 Segment FSTN (Large) Display
Selectable Engineering Pressure Units

MPCE IN100 Series Hydraulic

Ranges 0 to 70 / 100 / 200 / 350 / 700 / 1000 bar
Accuracy ±0.1% F.S.
Resolution Minimum 4½ digits
Display 7 Segment 5 Full Digit High Contrast
Customized LCD Display

MPCE-H / MPC-H / MPC-H+ **ABS Type Available** Hydraulic

Ranges 0 to 70 / 200 / 350 / 700 / 1000 bar **IP 52 RATED**
Accuracy ±0.1% F.S. / ±0.05% F.S. / ±0.025% F.S.
Resolution Minimum 4½ / 5 / 5 digits
Display 7 Segment FSTN (Large) Display **DNV-GL**

PPC-H / PPC-H+ Hydraulic

Ranges 0 to 200 / 400 bar **DNV-GL**
Accuracy ±0.05% F.S. / ±0.025% F.S.
Resolution Minimum 5 digits
Display Large Graphic Display

Pneumatic - Very Low PPC-PL

Ranges -8500 to +10000 mmH₂O **DNV-GL**
Accuracy ±0.075% F.S.
Resolution Minimum 5 digits
Display Large Graphic Display

Portable Pressure Test Kit

CalNitro

Max Pressure 200 bar / 3000 psi
Pressure Control Thro' Precision Regulator
Pressure Gauges Dial Size: 63 mm (Analog)
Range 0 to 280 kg/cm² & psi
Storage System 2L Nitrogen Cylinder with Needle Valve
Display 7 Segment FSTN (Large) Display



* Typical Photos

PRESSURE SERIES

Hand Pumps

PHP 2, 10, 20, 35, 40, 60

Pneumatic

Range -0.9 bar Vacuum to 60 bar Pressure
Medium Air
Sensitivity / Resolution Upto 1 mbar
Gauge / Indicator Connection Port 3/8" (F) BSP
Test Connection Port 1/4" (F) BSP

Other Pumps

Electrical Vacuum Pump

EVP 69

Structure Double Stage; Power Electric
Colour Blue
Voltage 220V / 50Hz
Free Air Displacement 6 CFM / 170 LPM
Ultimate Vacuum 2 x 10⁻¹ Pa
Rotating Speed 2800 RPM
Power 3/4 HP
Oil Capacity 370 ml
Casting Alloy Aluminium

Dead Weight Testers

H3000

Hydraulic

Ranges 35 / 70 / 100 / 160 / 350 / 600 / 700 bar
Piston Single / Dual
Accuracy ±0.1% of Reading
Traceable to International Standards
Mild Steel/Non-Magnetic Stainless Steel Weights
Pressure generation thro' Priming Pump & Screw Ram

H6600

Hydraulic

Ranges 35 / 70 / 100 / 160 / 350 / 600 / 700 bar
Piston Single / Dual
Accuracy ±0.025% of Reading
Traceable to International Standards
Non-Magnetic Stainless Steel Weights
Pressure generation thro' Priming Pump & Screw Ram

Bellows Type

Hydraulic

Ranges 1000 / 1200 bar
Piston Single / Dual
Accuracy ±0.1 / ±0.05% / ±0.025% / ±0.015% / ±0.01% of Reading
Traceable to International Standards
Mild Steel/Non-Magnetic Stainless Steel Weights
Pressure generation thro' Priming Pump & Screw Ram
DWTCal Calibration Software

Comparators / Gauge Testers

GCL Series

Hydraulic

Ranges 0 to 250 / 350 bar
Type Screw Pump
Pressure generation Priming Pump for initial pressures & Screw RAM Pump for high pressures
Test Port Connection 1/2" BSP (F) Swivel
Medium Oil (Optional : Water)

PCP Series

Pneumatic

Ranges -0.95 to 4 / 6 / 10 bar (Std. Model)
70 / 100 / 140 / 200 bar (Special Models)
- with External 3 Stage High Pressure Hand Pump)
Pressure generation Screw RAM Pump
Pressure Medium Air
Gauge / Indicator Connection Port 1/2" (F) BSP

HHP 200, 400, 700, 1000

Hydraulic

Ranges Upto 200 / 400 // 700 / 1000 bar
Gauge / Indicator Connection Port 1/4"(F) // 3/8"(F) BSP
Test Connection Port 1/4" (F) BSP
Medium Oil (Water Model Optional)
Oil Reservoir Material Transparent Acrylic
Reservoir Capacity 100 cc

Screw Pump Vernier

SPV-48

Maximum Range 1 bar
Medium Air
Material of Constr. Brass - Electroless Ni plating
Test Connection Port 4mm push fit hose to 1/4" BSP (F)
Master Connection 4mm push fit

H6000

Hydraulic

Ranges 35 / 70 / 100 / 160 / 350 / 600 / 700 bar
Piston Single / Dual
Accuracy ±0.05% of Reading
Traceable to International Standards
Non-Magnetic Stainless Steel Weights
Pressure generation thro' Priming Pump & Screw Ram

H6900 // H6990

Hydraulic

Ranges 35 / 70 / 100 / 160 / 350 / 600 / 700 bar
Piston Single / Dual
Accuracy ±0.015% // ±0.01% of Reading
Traceable to International Standards
Non-Magnetic Stainless Steel Weights
Pressure generation thro' Priming Pump & Screw Ram
DWTCal Calibration Software

P8000 / P8600

Pneumatic

Ranges 0.5 to 1 / 2 / 10 / 20 / 35 bar
Piston Single
Accuracy ±0.05% / ±0.025% of Reading
Traceable to International Standards
Non-Magnetic Stainless Steel Weights
Pressure generation thro' Priming Pump & Screw Ram

GCH Series

Hydraulic

Ranges 0 to 700 / 1400 / 2000 bar
Type Screw Pump
Pressure generation Priming Pump for initial pressures & Screw RAM Pump for high pressures
Test Port Connection 1/2" BSP (F) Swivel
Medium Oil (Optional : Water)



SPV-48



* Typical Photos

SIGNAL CALIBRATORS

Thermocouple Calibrator

Nagman 02+

Capability to Measure & Simulate Voltage & Thermocouple Readings
Compact, Light Weight Unit with Holster
Basic Accuracy : $\pm 0.05\%$ Reading
Selectable Temperature Output Readings (in $^{\circ}\text{C}$ / $^{\circ}\text{F}$)
Measurement & Simulation of Thermocouple types R, S, B, E, K, J, T & N and Voltage - 1 V Simulation, 100 mV Measurement

RTD Calibrator

Nagman 03+

Portable, Handy, Easy to carry & Sturdy Case with grip.
Capability to Measure & Simulate Resistance & RTD Readings
Basic Accuracy : $\pm 0.05\%$ Reading
Compact, Light Weight Unit with Holster
Selectable Temperature Output Readings (in $^{\circ}\text{C}/^{\circ}\text{F}$)

Loop Calibrator

Nagman 05+

Capability to Measure & Simulate Voltage & Current Readings
Compact, Light Weight Unit with Holster
Capability to provide Loop Supply (24V) for Transmitters
Basic Accuracy : $\pm 0.05\%$ Reading

Temperature Calibrator

Nagman 14+

Capability to Measure & Simulate DC Voltages, Resistances, Thermocouples and RTD
Basic Accuracy : $\pm 0.02\%$ Reading
Compact, Light Weight Unit with Holster
5 digits display of Measurement & 6 digits display for Simulation
Dual LCD with white LED for backlight

V/mA Pressure Calibrator

Nagman 15+

Compact, Light Weight Unit with Holster
Capability to Measure & Simulate DC Voltages, DC Current & Frequency
Basic Accuracy : $\pm 0.02\%$ Reading
5 digits display of Measurement & 6 digits display for Simulation
Dual LCD with white LED for backlight

Loop Calibrator with Hart

43H

Tool for communicating with Process Instruments.
Relying on an Open Communications Protocol, Hart Communicators Interface with Hart enabled 'Master' and 'Field' Devices.
Reads the Device's basic information, perform Diagnostic Testing & Calibration to fine-tune the most Hart Transmitter
Store upto 20 Hart Device Configuration data

Process Meter / Multimeter

79A

Compact, Light Weight Unit with Holster
Measurement & Simulation of DC Voltage, DC Current, Resistance, Thermometer, RTD & Frequency.
Auto Ramp & Step Function
24V Loop Parameter function

Digital Multimeter

N6581 / VC980+

Benchmark & Handheld

6½ Resolution
3.5" Color Display
Screen Resolution Ratio 320*480
Customizable Display Interface
Bi-parameter Display
Conduct Remote Operation thro' Interfaces of IEEE 488, RS-232, LAN & USB Device.

MULTIFUNCTION PROCESS CALIBRATORS / CONTROLLERS

Nagman 25

Compact, Light Weight Unit with Holster
Capability to Measure & Simulate DC Voltages, DC Current, Frequency, Resistance, Thermocouples & RTDs
5 digits display of Measurement & 6 digits display for Simulation
Basic Accuracy : $\pm 0.02\%$ Reading
Dual LCD with white LED for backlight
Capability to perform Switch Test & Continuity Test

MFC 40

With Pressure Module

CE

Compact & Portable
Capability to Measure & Simulate DC Voltages, DC Current, Resistance, Thermocouples & RTDs
Basic Accuracy: $\pm 0.025\%$ reading
128 x 64 Graphic Display with backlight
In/Out Data Memory : 20 Values can be stored manually
USB Computer Interface
CE Certified Conforming to EN61010-1 EN61326-1 EN60529
Environment Testing Standards : JSS 5555 : 2000 Rev No. 2
Ingress Protection Rating : IP 55

IP 55 RATED

TEST, MEASURING & PROCESS CONTROL INSTRUMENTS

- 201 Precision RTD Thermometer (0.01°C)
- 202 Type K Thermometer
- 203 Dual Input Humidity Temperature Meter
- 204 Datalogger Dual Input Humidity Temperature Meter
- 205 Four Channels Datalogger
- 221 Sound Level Meter
- 222 Sound Level Calibrator
- 224 Moisture Meter (Grains)
- 231 Light Meter
- 241 TRMS Inrush Clamp Meter
- 242 TRMS AC DC Clamp Meter
- 243 TRMS AC DC Low Current Clamp Meter
- 244 TRMS Milli-Amp AC DC Clamp Meter (0.1mA)
- 245 TRMS AC DC Clamp Meter
- 246 TRMS AC Leakage Clamp Meter (0.001mA)

- 261 Insulation Tester
- 262 Insulation Tester
- 263 Earth Resistance Tester
- 271 Hydrogen (H_2) Gas Leak Detector
- 272 Carbon Monoxide (CO) Meter
- 274 Combustible Gas Detector
- 281 Digital Multimeter
- 283 Precision Digital Multimeter (True RMS)
- 284 Digital Smart Multimeter
- 286 Digital Tachometer
- 291 Hot Wire Anemometer
- 292 Vane Anemometer

* Typical Photos

Primary Standard

System 1100

Calibration of Pressure Gauges, Calibrators, Transducers, Transmitters, Indicators, Switches, Valves I/P, P/I Converters, etc. -- Both Hydraulic & Pneumatic

Temperature

System 7000

Calibration of Temperature Sensors, Indicators, Thermocouple and RTDs – Probes / Assemblies / Transmitters, Calibrators, Thermistors, Recorders, Switches etc.

Mobile Calibration System/Kit

Mobical Series

3 Types of Kits are available covering parameters viz.

Mobical EE : Electrical & Electronics

Mobical PT : Pressure & Temperature

Mobical PTES : Pressure, Temperature, Electrical & Electronics

Calibration Software

Calman Plus

Powerful Tool for Calibration of Devices in Process Industries under present Quality Guidelines such as ISO 9000. Calman Plus automates the process of Calibration making them quicker & easier. Certificate generation, Record updation possible.

Electrical & Electronics

System 5000

Calibration of V/A Meters, Multimeters, AC/DC Signal Sources, Clamp Meters, Tachometers, Ohmmeters, Decade Boxes, Power Supplies, Multifunction Calibrators, Frequency / Signal Generators, Oscilloscopes, Frequency Meters, Timer Counters etc.

Multifunction / Multiparameter

System 9600

Calibration of Electrical / Electronic Signal, Temperature & Pressure (Measurement & Generation) Applications. General Utilities like AC/DC Power Supplies, & Test / Measuring Calibration Instruments

Safety Valve Test Bench

NAG-SV50

Safety Valve Test Bench is a Very Easy, Safe, Accurate and Maintenance Free Operating Workshop Test Unit for Testing & Calibration of Pressure/Safety Relief Valve (Spring operated) in the Range of 0.5" to 8" (DN – 15 to 200 mm) according to the Common International Test Standards.



INFRARED PYROMETERS

Non-contact Infrared Temperature Measurements Solutions

METTLE Series

Intelligent High-Performance IR Pyrometers

Two color Ratio Pyrometers: Various Models to cover Temperature ranges from 250°C ~ 2600°C
Single color Pyrometers: Various Models to cover Temperature ranges from 150°C ~ 2500°C

- Accuracy: 0.5%, Resolution: 0.1°C;
Adjustable Response time: 5ms ~ 99.99s
- Adjustable focus lens: standard focal length from 0.35m to infinity, near focal length from 0.2m to 0.5m
- Options to choose either Laminated Silicon or InGaAs detector (in both two-color and single-color versions)
- High brightness LED light source or visible green eyepiece aiming, clearly display the location and size of measured target.
- Two color pyrometers have both two-color and one-color measurement function
- Lens dirty detection function
- Industrial grade OLED screen as display interface
- 2 independent analog output, 2 alarm output, 1 channel level output and 1 channel RS485 communication interface
- Supports bus cascade connection of up to 26 pyrometers and realize network control through PC (in selected models)
- Water Cooling and Air Purge Jacket (optional)

ROBUST Series

Sturdy & Compact Single color narrow band IR Pyrometers

Si (silicone photocell) detectors : Various Models to cover Temperature ranges from 600°C ~ 2500°C

InGaAs detectors : Various Models to cover Temperature ranges from 150°C ~ 2500°C

- Accuracy : up to 0.5%, Resolution: 0.1°C , Response time: 5ms ~ 99.99s
- Manual adjustable focus
- Equipped with full range temperature compensation to avoid the influence of ambient
- Industrial OLED screen as display interface
- Programmable 4 types of analog output options, 1 channel alarm output, 1 channel level output 1 channel RS485 communication interface
- Support bus cascade connection of up to 26 pyrometers, and realize network control through PC (in selected models)
- Built-in visible high brightness green light or eyepiece aiming (on select models)

FIBER Series

Fiber Optic Two Color / Single color IR Pyrometers

Two color / Single color Fiber optic IR Pyrometers
Various Models to cover Temperature ranges from 600°C ~ 2500°C

- Consists of lens, fiber optics and processing components
- Manual adjustable focal lens, achromatic lens combination
- Suits for applications in harsh environment as moisture, dust, target size change, partial blockage and emissivity change
- Accuracy : 0.5%, Resolution : 0.10, Response time 5ms ~ 99.99s adjustable
- Laser aiming to clearly show the position and size of measured target
- Both two-color and one-color temperature measurement functions
- Industrial-grade OLED screen is used as the display interface
- interfaces: 2 independent analog output, 2 alarm output, 1 level output and RS485 communication interface
- Anti-interference design such as software and hardware improves system stability
- Supports up to 26 pyrometers in bus cascade, and realizes networked control via PC



MOXIE Series

Economy stand-alone Two Wire / Four Wire IR Pyrometers

Metal Housing, Optical Component and Special Integrated Circuit Stand-alone

General Purpose 8-14µm Pyrometers. Various models to cover ranges from 0 ~ 800°C

- Advanced digital design & Optical structure
- Various analog & digital signal output
- Spectral response: 8-14µm
- Accuracy : ±2°C or 1% whichever is higher
- Resolution: 0.1°
- Response time: ≤500ms
- Factory calibration with temperature compensation within full range
- Wide range of operation temperature
- Easy to install & maintain, low cost



Universal Process Calibrator MCS-12 / MCS-12-IS

Measures and generates mA, mV, volts, ohms, RTD, TC and Hz.
Simultaneous input and output operation.
Accuracy up to 0.01% full scale.
2-Wire Transmitter Power Supply: 12 Vdc / 30 mA.



Universal Process Calibrator MCS-XV Series

Measures & generates mA, mV, Volts, Ohms, RTD, TC, Hz. Upto 4 pressure sensors, Ranges 250 mmH2O - 10000 psi Full Hart Configurator.
Ethernet, Wi-Fi, Pen drive, **HART** & USB Host/Device. Portable / Bench-top / Rack Mounted Models available.



Hart Field Communicator FCY 15 / FCY 15-IS

Configurator Full HART with the latest Device Descriptions (DD's) Library updatable by user thro' USB port. Allows inclusion of new DD's not registered in FieldComm Access to setup entire instrument's parameters tree with HART Protocol, regardless of manufacturer or model Has 24V power supply for 2 wire transmitters with internal resistor or 250 Ohms selectable Input for measuring current, allowing the instrument trim & loop test without a calibrator Colour display, 5.7" high visibility, fully touch screen, friendly interface HART configuration interface in two levels : Calibration HART & Full HART.



Automatic Precision Pressure Controller PCON-Y17

A Calibrator designed for the automated pressure control of a wide selection of ranges upto 3000 psi (Pneumatic) found in Instrumentation Applications.

Automatic Precision Pressure Controller PCON-Y18

Provides a complete solution for the Test & Calibration of your Pressure. No extra Software or Computer is needed to generate the Calibration Test Report on the fly and the data are tamper proofed in accordance with 21 CFR Part 11.



FOREIGN PRINCIPALS

Presys, Brazil

Manufacturer of Temperature Calibrators, Automatic Pressure Controllers, Universal Process Calibrators with HART Capability, Work Stations for Pressure Safety / Relief Valves.

Meriam Process Technologies, U.S.A.

Multifunction Calibrator; HART Communicator; Temperature, Pressure & Loop Calibrators

AOIP (Eurotron), France

Benchtop / Field / Multifunction Calibrators (IS & Non-IS Versions), TC/RTD / Process Calibrators, Data Loggers, Flue Gas Analyzers etc.

Amarell GMBH & CO., Germany

General Purpose & Industrial Thermometers

D. Marchiori S.R.L., Italy

Various RVSM Air Data Test Set Modules for troubleshooting, leak testing & Certification of Aircraft Pitot-static Systems.

Extech Instruments, U.S.A.

A Wide Range / Variety of Cost Effective Test & Measuring Instruments.

Huber Instruments AG., Switzerland

Digital Handheld Manometers, Gauges, Altimeters & Absolute Pressure Barometers.

Practical Instrument Electronics, U.S.A

Multifunction & Single Function Calibrators – mA / Voltage / RTD / Thermocouple / Frequency

ACIN Instrumenten BV, The Netherlands

Widest Range of Instruments for Measuring & Recording Pressure

ASP Sensors, U.S.A.

High Precision Reference RTDs

Nagman Instruments Consortium

Parent Company & our Associates



Nagman Instruments And Electronics Private Limited

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Calibration Standards, Systems & Software



Nagman Flow-Level Systems And Solutions LLP

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Site www.nagmanflow.com

**Flow / Water Meter Calibration Systems
Level Test & Calibration Rig/System
Flow Meters & Level Transmitters**



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**NABL Accredited Calibration Services
as per ISO 17025:2017 Standard**



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