scanvdura
Instrumentation and calibration systems

series G 40

S1C050E3-G40A

Measuring and simulating unit,
to perform the most common tests and
calibrations of process control instrumentation,
in the maintenance workshop, or in the field.

Hand-held Calibrators

G 40 / A

for mA current Simulation & Measurement

■ MAIN FEATURES

- Microprocessor technology for high accuracy and operating flexibility.
- Selection of the operative modes on a tactile membrane keyboard.
- Menu-driven setup for the simulation of a single value and the storage of three values with manual recall. Simulation setting with fast and slow upgrading.
- Alphanumeric LCD display, 16 characters, 7 x 5 dot matrix per character.
  Simultaneous indication of measured or simulated value, unit symbol, IN/OUT mode. Display contrast setting in four step.
- Average measurement of unstable inputs
- Digital interface with TTL logic, for communication to computerized systems.
  A four-lead cable with a male mini DIN connector, and a TTL to RS 232 adaptor, are available on request.
- Square root for direct reading of flow from dP transmitter.
- Hold function, by freezing on the display the last measured value.

■ GENERAL

- Alkaline batteries operated.
- Optionally, on request four Ni-Cd rechargeable batteries and external battery charger unit Recharge time to 90% In 8 hours, with instrument switched off.
  Low battery symbol on the display.
  Nominal battery voltage 5.2V
- Operating temperature range:
  -5°C to 50°C
- Storage temperature range:
  -30°C to 60°C
- Dimensions: 96 x 200 x 40 mm
- Net weight kg. 0.9
- Test certificate
  Works test certificate is standard. On request, official certificate Issued by a S.I.T. (Servizio di Taratura in Italia) accreditated laboratory. S.I.T. is the Italian Calibration Service, membership of the EA

G 40/A TECHNICAL DATA

- **Resolution:**
  mA, or 0.1%
- **Uncertainty:**
  0,1% of rdg ±1 digit defined at ambient temperature of 23°C ± 1°C
- **Temperature stability:**
  Span: ±0.0125% of rdg per °C
  Zero: ± 2 µA per °C
- **External resistance load:**
  1000 ohm max
- **Active loop voltage:**
  40V d.c. max

SIMULATION and MEASUREMENT of CURRENT SIGNALS

- **Generator mode:**
  Generation of a current signal, range from 0.00 mA to 22.00 mA d.c.
- **Simulator mode:**
  Simulation of the output of a 2-wire transmitter, within the range 0,00 to 22,00 mA d.c., in a loop with external power.
- **Measurement mode:**
  Readout of d.c. current directly in mA, range 0/22 mA, or in percentage.
- **Loop powered measuring mode:**
  The instrument provides a 24V d.c. power for operating a 2-wire transmitter and simultaneously reads the loop current in mA. within the range 0.00 to 22.00 mA. or in percentage, range -25.00 to + 100.00%
- **24V d.c. power supply mode:**
  The Instrument can be used as a loop power source, 24V d.c. with a current of 22 mA max.
- **IN/OUT percentage mode:**
  Conversion of the current signal into percentage and viceversa, with linear relation mA (%): 0 (-25.0%), 4(0.00%), 12 (+50.00%). 20 (+100.00%)
- **Internal shunt resistance:**
  Lees than 50 ohm
- **Input protection:**
  Up to 150V with a special fuse, and electronic protection.
- **Battery life:**
  24 hours of continuous operation, on measuring mode.
- **Self calibration procedure:**
  A precision reference source of 20 mA d c. is required.

STANDARD SUPPLY

- Standard supply includes:
  - Plastic carrying bag with strap
  - Battery charger for 220/240V (option 110/120V) 50-60Hz
  - Calibration Report (English)
  - Compliance Certificate
  - Operating Manual

ORDER GUIDE

G-40/A for current in mA

SCANDURA: Synonymous of Calibration

Scandura is a customer's oriented enterprise that stays aside all Instrument & Maintenance Engineers to better serve their requirements and making their job more accurate and valuable.
Although nearly forty years of challenging and competitive activity all over the world have definitively given **Scandura** an international role, the *roots* and the *fruits* remain "Made in Italy". A symbol of sophisticated solutions ensured by an experienced, creative, flexible and open minded team of people that is pleased to respond to customer's needs whatever your needs are.

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