

SSGC/LP/EPADS/30/2077467.

Technical Specification



Department	Measurement- Transmission Department	Section	Gas Quality Measurement
Description	Digital Multimeter		
Spec #	Meas. Trans./04-2025 (Date:21-05-2025)		

General Specification:

- True-Root Mean Square functionality for accurate readings of both linear and non-linear (distorted) waveforms.
- Wide measurement capability: up to 1000 V AC/DC.
- Measurement functions must include: Voltage (AC/DC), Current (AC/DC), Resistance, Capacitance, Frequency, Continuity, Temperature (with integrated thermometer and compatible probe).
- High-contrast, large digital display with backlight for improved visibility in low-light environments.
- Includes Min/Max/Average recording, Display Hold, Auto and Manual ranging modes.

Electrical Specification:

Function	Accuracy	Maximum Resolution	Maximum Value
DC Voltage	$\pm (0.09\% + 2 \text{ counts})$	0.1 mV	1000 V
AC Voltage	$\pm (1.0\% + 3 \text{ counts})$	0.1 mV	1000 V
DC Current	$\pm (1.0\% + 3 \text{ counts})$	0.01 mA	10 A
AC Current	$\pm (1.5\% + 3 \text{ counts})$	0.01 mA	10 A
Resistance	$\pm (0.9\% + 1 \text{ count})$	0.1 Ω	50 M Ω
Capacitance	$\pm (1.2\% + 2 \text{ counts})$	1 nF	10,000 μ F
Frequency	$\pm (0.1\% + 1 \text{ count})$	0.01 Hz	100 kHz
Temperature	$\pm (1.0\% + 10 \text{ counts})$	0.1 $^{\circ}$ C / 0.1 $^{\circ}$ F	-40 to 400 $^{\circ}$ C

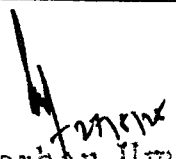
Environmental Conditions:

Operating Temperature: 0 to 40 $^{\circ}$ C (14 to 122 $^{\circ}$ F)

Storage Temperature: -10 to 50 $^{\circ}$ C (-22 to 140 $^{\circ}$ F)

Humidity (non-condensing):

- 0 to 90% RH (0 to 35 $^{\circ}$ C)
- 0 to 70% RH (35 to 50 $^{\circ}$ C)

Prepared By	Checked By	Approved By
 KHURRAM ALI NAYER Engineer Measurement Transmission SSGC K.T.	 Engr. Nazeer Ahmed Kandhro Dy. Chief Engineer Measurement Transmission KT Sui Southern Gas Co. Ltd.	 Farhan Umar GM (Meas-Trans & LNG) Karachi Terminal

Technical Specification

Department	Measurement- Transmission Department	Section	Gas Quality Measurement
Description	Digital Multimeter		
Spec #	Meas. Trans. /04-2025 (Date:21-05-2025)		

Safety & Standards:

Overvoltage Category: EN 61010-1 rated to:

- 1000 V CAT III
- 600 V CAT IV

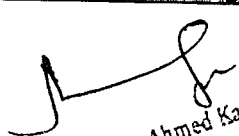
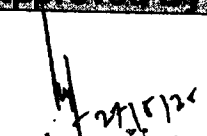
Mechanical and General Specifications:

Battery Life: 200 hours typical for alkaline.

Size (H x W x L): (1.7 ± 0.3) x (3.5 ± 0.3) x (7.3 ± 0.3)"

Mandatory Requirement

- 1) Material is required to be delivered within 15 days after the confirmation of the Purchase Order.
- 2) All bidders must provide brochures/data sheets clearly showing compliance with each specification.

Prepared By	Checked By	Approved By
 KHURAM ALI NAYYER Engineer Measurement Transmission SSGC K.T.	 Engr. Naseer Ahmed Kandhro Dy. Chief Engineer Measurement Transmission KT Sul Southern Gas Co. Ltd	 Farhan Umar GM (Meas-Trans & LNG) Karachi Terminal