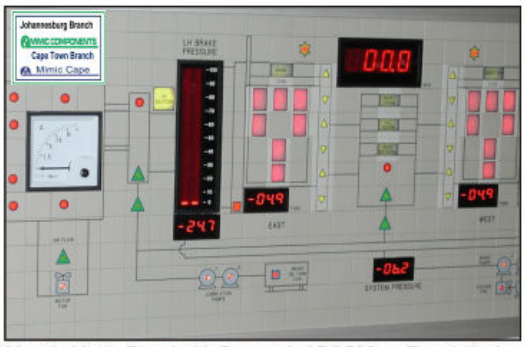
Mimic In-House Article
Subject: Bargraph Panel Displays
Date: 5th February 2026

Bargraphs for Panel Displays



Mosaic Mimic Panel with Bargraph ABG502 as Panel display

Bargraph ABG502

Bar graphs for panel displays are widely used in industrial and process-control environments as they provide instant, visual indication of the magnitude of a variable.

From a measurement and display perspective, it translates as an electrical signal or measured value into a proportional visual length. This allows the user to grasp how high, how low, or how close to a limit a parameter is at a glance.

Unlike numerical displays that require reading and interpretation, a bar graph communicates status visually, making it especially effective for real-time monitoring. This immediate graphical representation helps operators to quickly detect trends, deviations, and abnormal conditions, even from a distance or in fast changing environments. The ability of speed of visual recognition is the key reason why bar graphs are so widely used in control panels, instrumentation, and industrial displays.

Bargraph Model ABG502 is designed to deliver clear, high-visibility indication while maintaining flexibility for a broad range of applications. Featuring a 50-segment high-brightness dual bar display available in red or yellow, the ABG502 allows operators to assess process conditions at a glance, even in high ambient light or from a distance.

The unit is factory calibrated for common industrial signal ranges including 0–2 V, 0–10 V, 0–20mA, and 4–20mA, reducing commissioning time while ensuring accuracy. For added versatility, the user can fine-tune the full-scale deflection and select between bar or dot display modes, adapting the bar graph's visual response to the measured signal. Galvanic isolation of the input enhances safety and noise immunity, protecting both the display and connected equipment. A peak-hold function, capturing and retaining the highest value of a signal over a period of time, and an external reset, allows for critical transient values to be retained and reviewed without continuous monitoring.

Mechanical and electrical design considerations further support ease of integration. The ABG502 fits a standard DIN cut-out of 45 × 138 mm, with a bezel size of 48 × 144 × 70 mm depth, and is available with vertical or horizontal front plate formats. Power options include 110/220 Vac ±10%or 12/24 Vdc ±15%, with low power consumption of 4 W maximum. Custom scaling, legends, and a Modbus-enabled variant extend its usefulness, while a three-year guarantee underscores reliability and long-term value.

Call us for more information on bar graphs for panel displays.

JHB Branch
Mimic Components, Address: 5 Ramsay Street, Booysens, 2091, Johannesburg. Switchboard: +27(0)11-689-5700 | WhatsApp: 071-979-9999
PO Box 38493, Booysens, 2016, Johannesburg, South Africa. Email: info1@mimiccomponents.co.za | Website: www.mimiccomponents.co.za

Cape Branch
Mimic Cape. Address: Unit 41A, Stella Park, 57 Stella Road, Montague Gardens, 7441, Cape Town. Switchboard: +27(0)21-551-8185
WhatsApp: 071-979-9999. Po Box 36955, Chempet, 7442, Cape Town, South Africa. Email: info@mimic-cape.co.za | Website: www.mimic-cape.co.za