

BG-241TC


## WESCHLER INSTRUMENTS <br> DIVISION OF HUGHES CORPORATION

Bar Display
50 segment LED
2\% full scale resolution
Circular display:

\[\)|  BG-241  |
| :--- |
|  BG-261/281  |

\]

Digital Display

| D digit | -9999 | to 99999 |
| :--- | :--- | :--- |
| Resolution | $0.01 \%$ full scale |  |
| Linearity | $\pm 1$ count |  |
| Height |  |  |
| BG-241 | $0.4 "$ | $(10.16 \mathrm{~mm})$ |
| BG-261/281 | $0.8^{\prime \prime}$ | $(20.32 \mathrm{~mm})$ |

Response Time

| DC | $<600 \mathrm{msec}$ full scale |
| :--- | :--- |
| AC | $<800 \mathrm{msec}$ full scale |

## Temperature

Operation
$0^{\circ}$ to $50^{\circ} \mathrm{C},<95 \% \mathrm{RH}$ (non-condensing)
Storage

## Input Isolation

| AC | Transformer isolated <br> $(>50 \mathrm{~mA}, 1 \mathrm{~V})$ |
| :--- | :--- |
| DC | Differential |

## Sensor Power

24VDC (excitation power) @ 90mA DC

Setpoints
Up to 4 SPDT relays with form C contacts available
Hysteresis 0.00-10.00\% FS or latching
Time delay 0-10 sec.
Retransmit Signals
4-20mA DC
$0-1 \mathrm{~mA} \mathrm{DC}$
1-5V DC
$0-5 \mathrm{~V}$ DC
Communication
RS232
RS485 (2-wire)

## Power

120, 240V AC (13VA)
12, 24, 28, 48, 125, 250V DC (8W)
Input Impedance
2Mohm @ >4V DC
30kohm @ 120V AC P.T.
0.10hm @ 5A AC C.T.

250ohm @ 4-20mA DC
100ohm @ 10-50mA DC
Input Overload Ratings
200\%, not to exceed 10A
200\%, not to exceed 300V

## ARIWORK GUIDELINES



SAMPLE PART NUMBER (SEE bottom of PAGE For EXAMPLE)


EXAMPLE: | 4 | B | Y | $\mathbf{4}$ | P | A | A | M | $\mathbf{1}$ | F | A | P | T | T | T |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$S=$ Special
$\mathrm{U}=$ Serial ASCII (requires com type A, B or C in Communication options)

## DIMIENSIONS

## BG-241TC


BG-261TC


SIDE VIEW


| *Case Depth | A |  |
| :--- | :--- | :--- |
|  | inches | mm |
| Regular | 3.600 | 88.2 |
| Extended | 5.150 | 126.17 |

1/4-28x5/8" mounting studs
Mounting Torque Requirements 65-70 inch-pounds maximum.
BACK VIEW

## BG-281TC



ALTERNATE PANEL CUTOUT FOR BG-281

## TERMINAL CONNECTIONS



BG-241TC / BG-251TC / BG-261TC / BG-281TC

AC LINE FREQUENCY
(1) Hot Side (+) (2) Return Side (-)

AC Inputs have 6/32 barrier lug connections.

## POWER

(1) Hot Side (+) (2) Return Side (-)

EXCITATION POWER 24 VDC
(1) -
(2) +

## COMMUNICATIONS

(1) Transmit (2) Common
(3) Receive

RELAY CONTACTS*
(1) AL 1 N.O. (2) AL 1 C
(3) AL 1 N.C.
(2) AL 1
(5) AL 2 C.
(4) AL 2 N.O.
(7) AL 3 N.O.
6) AL 2 N.C.
(9) AL 3 N.C.
(11) AL 4 C.
(8) AL 3 C.
(10) AL 4 N.O.
(12) AL 4 N.C.

* N.O. = Normally Open
N.C. $=$ Normally Closed
C. $=$ Common

Options and features vary by model. Contact factory for details and latest specifications.
For AC power measurements see the terminal connections \& wiring diagrams on the BG-AC Power Circular BarGaphs.

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