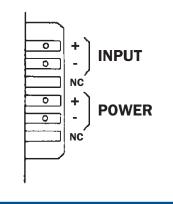
## **263 Series LED Bargraph Indicator and Controllers**

#### **Features**

- High resolution 51 segment LED Bargraph for easy reading
- >>> Accuracy 1%
- **Red display**
- Vertical or Horizontal mounting & stackable

## **Connection Diagrams** 263-ATH





- Process Control
- Water Treatment
- Power Generation
- Control panels & Switchboards
- Monitoring Systems



Isolated D.C. auxiliary, 5 or 24V D.C. + 5% 1

Watt. Relays: Contacts rated 0.2A at 250V.

Relays are not energized when the measuring

signal is within the area limited by the

setpoints or during the absence of an

**51 Segments** 

auxiliary supply.

Scale can be customised to suit user's particular needs, e.g. numbers, engineering units, logos and colors.

#### **51** segments

Introduction

The 263-ATH is a 51 segment single bar with rear of the instrument zero and span adjustment. This instrument is ideal for use where space is limited.

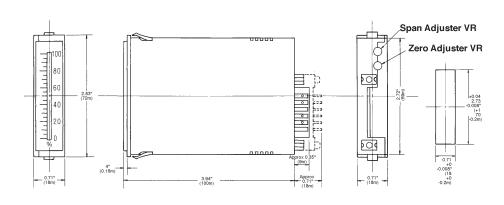
#### **Specification**

#### **Performance Input: Response time:** <0.5 seconds D.C. current: 0/1mA, 0/10mA and MTBF: 88000 hours 4/20mA Weight: 263-ATH 80g D.C. voltage: 0/1, 0/5, 1/5 and 0/10V D.C. **Display element** Note: Other D.C., A.C. and temperature parameters Color: Red is standard may be measured using the Crompton range of x2 continuous overload Overload: transducers in conjunction with this bargraph. Indicated by: Case: Grev ABS Top LED flashes 263-ATH Front: Transparent Acrylic Accuracy: + 2% ±1 segment Enclosure: IP30 for complete instrument Zero and gain stability: 0.02%/°C IP42 for front of instrument Code: Maximum 500V A.C. between Isolation: Temperature: Storage -40 to +70°C signal inputs and auxiliary Operating 0 to +60°C supply. **Humidity Range:** Up to 80% (non condensing)

#### **Product Code**

Single bar no setpoints. D.C. (vertical) 263-ATV Single bar no setpoints. D.C. (horizontal) 263-ATH

#### Dimensions





Programmable tri-colour or

segment LED Bargraph for

mono-colour display

30 plug-in measuring

AC/DC power supply

24V excitation option

Dual vertical or horizontal

bargraphs (264-ATS only)

High resolution 101

easy reading

**Accuracy 0.05**%

## 264 Series LED Bargraph Indicator and Controllers

The 264 series of 101 segment bargraphs offers 30 plug-in measuring modules and optional isolated analogue output, and up to four programmable set points for monitoring, measurement and control applications. Options include single or dual display, Smart tri-colour or mono-colour centre zero mounted bargraphs, and monocolour right or left mounted bargraphs.

# 

#### Features

- Two 10 Amp Form C, and two 5 Amp Form A relays available.
- Auto-sensing AC/DC power supply. For voltages between 85-265 V AC/95-370 V DC (Z) or 18-48/ 10-72 V AC / DC (Y).
- Optional NEMA-4 front cover.
- Optional isolated 16 bit analog output. User or factory scalable to 4 to 20 mA, 0 to 20 mA or 0 to 10 V across any desired span from ± one bar to the full scale range.
- 24 V DC excitation is available to power external 4/20 mA transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors.

#### **Specifications**

## **Applications**

Features

modules

>>

>>

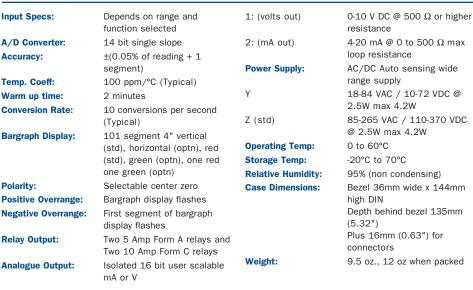
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>> Process	Control
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- >>> Water Treatment
- Power Generation
- Control Panels & Switchboards
- Monitoring Systems



#### **Software Features**

- The 101 segment bargraph can be easily user scaled
- Bargraph center zero function
- Four programmable setpoints
- Relay activation can be selected to occur above (HI) or below (LO) each setpoint

### Product Code

Single bar 2 setpoints Single bar 4 setpoints 264-ATT 264-ATF Dual bar no setpoints

264-ATS

**TOMPTON** 

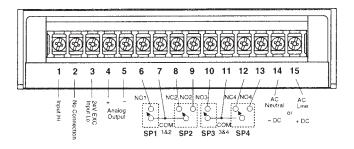
## **264 Series LED Bargraph Indicator and Controllers**

#### **Connections**

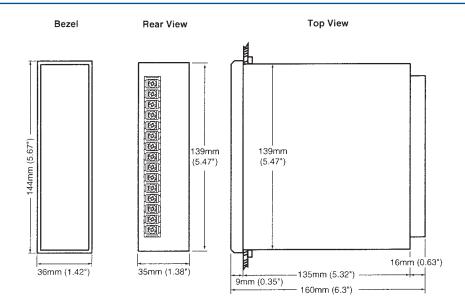
#### **Rear Panel Pinout Diagram**

This meter uses plug-in type screw terminal connectors for all input and output connections.

WARNING: AC and DC input signals and power supply voltages can be hazardous. Do not connect live wires to screw terminal plugs, and do not insert, remove or handle screw terminal plugs with live wires connected.

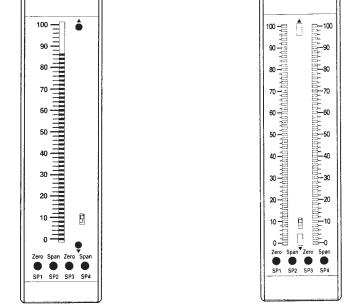


#### **Dimensions**



# Display

264-ATF Single Display



264-ATS Dual Display



**Digital Indicators** 

## 264-DT Series LED Digital Indicator and Bargraph Controller



#### **Applications**

Designed to provide the user with an accurate combination of instantaneous digital reading and trend indications, the 264-DT series can be used in a variety of applications and industries such as:

- Process Control
- Water Treatment
- Power Generation
- Control Panels & Switchgear
- Monitoring System

#### **Display/Operation**

Smart Tricolour or mono-colour digital bargraph with more than 38 different plug-in measuring modules, and optional isolated analogue output and up to four fully programmable set points for monitoring, measurement, and control applications.

The digital display is 4 digit 7 segment with a character size of 8 x 4mm. The display can be programmed for either 1999 or 9999 reading at full scale. The Bargraph display is a 101 segment LED. Relay status indication

is provided by LEDs situated at the side of the display.

All units have non volatile memory so in power down conditions all set parameter information is retained.

All units have a choice of inputs and auxiliary supplies available. Scales can be customised to suit users particular needs, e.g numbers, engineering units, logos and colors.

#### **Features**

- External transmitters or signal conditioners can be eliminated by direct connection of the sensor output to more than 38 plug-in Input Signal Conditioners that include:
  - AC/DC Current Pressure - Resistance
  - AC/DC Voltage Process - Temperature - Load Cell
    - Prototype 4 to 20 mA
- Optional isolated 16 bit analogue output. User or factory scalable to 4 to 20 mA, 0 to 20 mA or 0 to 10 V across any desired digital span from ± one count to the full scale range of -1999 to 9999 (12000 counts).
- A Programmable Tricolor (Red-Green-Orange) or mono colour (red or green), 101 segment high brightness bargraph. Optional vertical or horizontal format.
- · Red 4-digit LED display with a range of -1999 to 9999 (12000 counts). Optional green digital display.

- Front panel LED annunciators provide indication of setpoint status.
- Two 10 Amp Form C, and two 5 Amp Form A relays available
- Auto-sensing AC/DC power supply. For voltages between 85-265 V AC / 95-370 V DC (Z) or 18-48 / 10-72 V AC / DC (Y)
- 24 V DC excitation is available to power external 4/20mA transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors.
- Optional NEMA-4 front cover.
- Automatic intelligent averaging, smooths noisy signals while providing a fast display response to real level changes.

#### Software Features

- Digital display and the 101 segment bargraph can be independently scaled
- · Relay activation can be selected to occur above (HI) or below (Lo) each setpoint.
- Bargraph centre zero function.
- Digital display blanking.

- · Four programmable setpoints.
- · Decimal point setting.
- · Adjustable delay-on-make and delay-on-break time for setpoint 1.
- Four-level brightness control of bargraph, digital display, and setpoint LEDs.

#### **Features**

- >> Programmable 3 colour bargraph
- >> 38 plug-in measuring modules
- >> Display colour options of **Red, Yellow or Green**
- >> High resolution 101 LED Bargraph

>> Accuracy: Digital ±0.1% 1 digit Bargraph ±1% 1 segment

- >> Two or four setpoint relay versions to suit a wide range of control applications
- >> Easy to set up
- >> Time delay option on relay contact operation

#### 38 Plug-in Modules

- AC/DC current
- >>AC/DC voltage
- >> Load cell
- >> Pressure
- >> Process
- >> Prototype
- >> Resistance
- >> Temperature
- >> 4 to 20 mA



## **264-DT Series LED Digital Indicator** and Bargraph Controller

#### **Specifications**

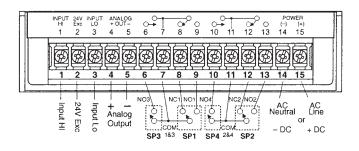
Input Specs:	Depends on Input signal module	<b>Relay Output:</b>	Two 5 Amp Form A relays and Two 10 Amp Form C relays.
A/D Converter:	14 bit single slope	Analogue Output:	Isolated 16 bit user scalable
Accuracy:	±(0.05% of reading + 2 counts)	1: (volts	
Temp. Coeff:	100 ppm/°C (Typical)	2: (mA ou	500 Ω or higher resistance ut) 4-20 mA @ 0 to
Warm up time:	2 minutes		500 $\Omega$ max loop resistance
<b>Conversion Rate:</b>	10 conversions per seco	nd Power Supply:	AC/DC Auto sensing wide
Digital Display:	(Typical) 4 digit 0.31" LED red (st green (optn). Range –19	po to	range supply 18-48 VAC / 10-72 VDC @ 2.5W max 4.2W
	9999 counts.	Z (std)	85-265 VAC / 110-370 VDC
Bargraph Display:	101 segment 4" red vert (std), green or tricolour	ical Operating Temp: Storage Temp:	@ 2.5 W max 4.2W 0 to 60°C -20°C to 70°C
	(optn), horizontal (optn)	Relative Humidity:	95% (non condensing)
Polarity:	Assumed positive. Displays – negative	Case Dimensions:	Bezel 36mm wide x 144mm high DIN
Decimal Selection:	Front panel button selectable, X•X•X•X•		Depth behind bezel 135 mm (5.32")
Positive Overrange:	Bargraph and top segme of digital display flash.	nts	Plus 16 mm (0.63") for connectors
Negative Overrange:	First segment of bargrap and bottom segments of digital display flashes	Weight: h	9.5 oz., 12 oz when packed
Product Codes			
Single bar no setpo	ints 264-I	OTV Single bar 2 set	points 264-DTT

#### **Connections**

#### **Rear Panel Pinout Diagram**

This meter uses plug-in type screw terminal connectors for all input and output connections.

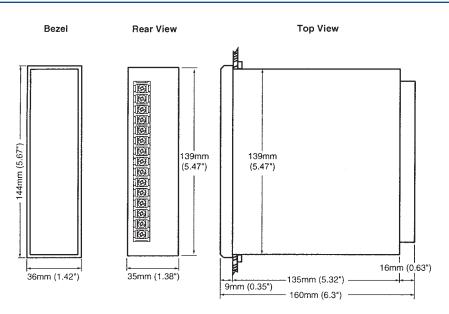
WARNING: AC and DC input signals and power supply voltages can be hazardous. Do not connect live wires to screw terminal plugs, and do not insert, remove or handle screw terminal plugs with live wires connected.



Single bar 4 setpoints

264-DTF

#### **Dimensions**



INSTRUMENTS

Trompton