



# ADTECH

95 Mt. Read Blvd # 149  
Rochester, New York 14611 USA  
Phone: 1.585.698.1845  
Fax: 1.585.697.0445

www.adtech-inst.com

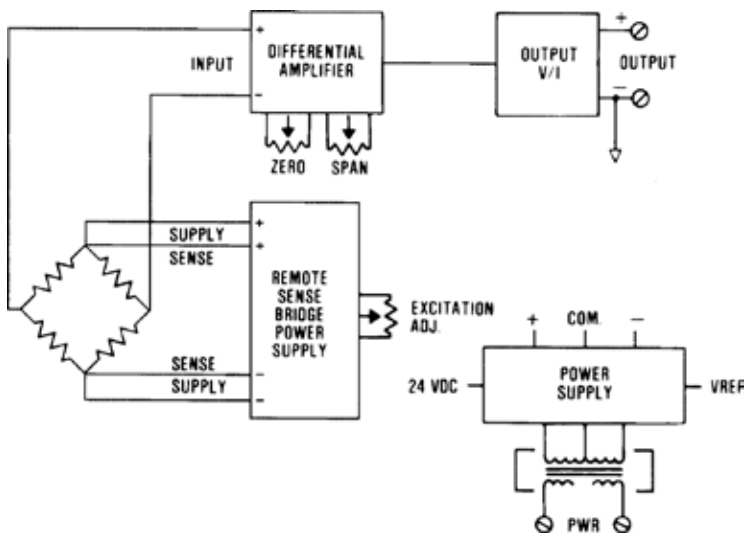
## STRAIN GAUGE TRANSMITTER MODEL NO. SGT 90

THE ADTECH MODEL SGT 90 STRAIN GAUGE TRANSMITTER PROVIDES AN ACCURATE AND ECONOMICAL WAY TO CONVERT A WIDE VARIETY OF PRIMARY ELEMENT STRAIN GAUGE TRANSDUCERS TO ANY STANDARD PROCESS SIGNAL SUCH AS 4-20 MA DC, 1-5 VDC, OR ZERO-BASED OUTPUT SIGNALS.

EXCITATION POWER FOR THE BRIDGE IS PROVIDED BY THE SGT 90 TRANSMITTER AS A STANDARD FEATURE AND MAY BE PRECISELY CONTROLLED BY USE OF REMOTE SENSING AT THE BRIDGE TERMINALS. THE EXCITATION SUPPLY IS ADJUSTABLE FROM 4-10 VDC AND CAN SUPPLY UP TO 100 MA DC (MAXIMUM).

THE SGT 90 PROVIDES STANDARD PROCESS CURRENT OR VOLTAGE SIGNALS ON THE OUTPUT WITH A MAXIMUM OF 10 mV P/P OUTPUT RIPPLE. THIS OFFERS AN EFFECTIVE MEANS OF INTERFACING LOW-LEVEL SIGNALS TO A COMPUTERS SYSTEM OR OTHER PROCESS INSTRUMENTATION FOR IMPROVED RESOLUTION.

RECALIBRATION TO OTHER DESIRED RANGES IS VERY CONVENIENT, AND THE USE OF TEMPERATURE-STABLE, LOW-NOISE COMPONENTS PROVIDES EXCELLENT STABILITY AND NOISE IMMUNITY. THE SGT 90 EMPLOYS THE LATEST DESIGN AND COMPONENTS FOR SUPERIOR RELIABILITY, ACCURACY, AND SERVICEABILITY.



## FEATURES

- DIRECT STRAIN GAUGE INPUTS
- INPUT RANGE: 120 OHM TO 10K OHM BRIDGES
- BRIDGE EXCITATION: 4 TO 10 VDC, 100 MA DC MAXIMUM
- TARE SUPPRESSION: 0-40%
- HIGH-INPUT IMPEDANCE: 10 MEGOHMS MINIMUM
- DC PROCESS SIGNAL OUTPUTS: CURRENT AND VOLTAGE
- REPEATABILITY: 0.05% MAXIMUM
- HIGH ACCURACY:  $\pm 0.1\%$  OF SPAN

## TYPICAL APPLICATIONS

- WEIGHING APPLICATIONS
- PRESSURE/FLOW TRANSDUCERS
- HEAT FLUX BRIDGES
- THERMAL CONDUCTIVITY BRIDGES
- ANALYZER BRIDGES
- WHEATSTONE BRIDGES



