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Digital, Strain Gauge, Torque Wrench

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SENIOR DESIGN

TECHNICAL REPORT

for

Digital, Strain Gauge, Torque Wrench
title

in partial fulfillment of the requirements

for the degree of

BACHELOR OF SCIENCE



presented to the

ELECTRICAL ENGINEERING TECHNOLOGY FACULTY

INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE

May 1st, 1980

date

by

Charles M. Millner

GRADE: .

APPROVED: .

ABSTRACT

Digital, Strain Gauge, Torque Wrench

BY: Charles M. Millner

An up-down counter, and several logic gates are used to transform signals from a strain-gauge transducer into a corresponding digital output, suitable for driving a seven-segment display.

The circuit replaces the analog-to-digital converter normally required for this type of application.

Other features are the use of standard logic devices and easy adaptability to applications that would require more or less of a degree of sensitivity for a desired output.

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