

accuracy in motion. accuracy in motion

# KiloWate TP4

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## conveyor belt scale

### The KiloWate TP4 Belt Scale is the Simplest and Most Dependable Belt Scale You Can Buy!

Keep your plant production running at peak efficiency by using the accurate, dependable, and durable **KiloWate TP4** conveyor belt scale.

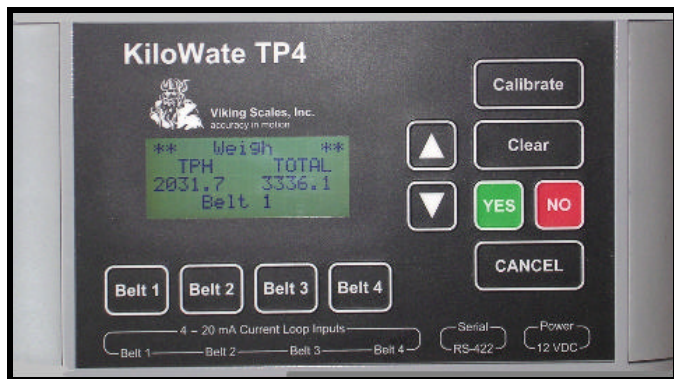
The **KiloWate TP4** measures the electrical energy used to lift material, subtracting the energy lost to friction, and translating the rest directly into tons and tons-per-hour. For this reason, it works best on conveyors with a vertical lift where the loaded current exceeds the empty current by 20 percent or more (i.e. 12 amps vs. 10 amps). The electrical connections are hooked up to the motor leads any place between the motor and its magnetic starter. The **KiloWate TP4** has the ability to monitor up to 4 belts at once.



**Accuracy**  
**+ or - 3 percent**

### Installation

Installation of a **KiloWate TP4** belt scale is a simple electrical connection between the motor and the starter. The scale can be mounted almost anywhere within 100' of the starters. No devices are connected to the conveyor belt or idlers and there are **no moving parts**.



### Standard Features

- Bright LCD displays
- Readout totals up to 999,990
- Tons per hour and days total
- Weatherproof enclosure
- Operation limitations:
  - Motor HP: 1 HP to 1000 HP
  - Voltage: 480 standard, 220 or 550 available
- Compatible with all conveyor belt widths
- Data can be sent to a computer via RS-422
- Can also be used with hydraulic motors
- Monitors from 1 to 4 conveyor belts simultaneously.

## Viking Scales, Inc.

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# Viking Scales, Inc.

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## ***KiloWate TP4*** **Conveyor Scale**

### **Principles of Operation**

**KiloWate TP4** measures the electrical energy used to lift material, subtracting the energy lost to friction, and translating the rest directly into tons and tons-per-hour. For this reason, it works best on conveyors with a vertical lift where the loaded current exceeds the empty current by 20 percent or more (i.e. 12 amps vs. 10 amps). The electrical connections are hooked up to the motor leads any place between the motor and its magnetic starter.

### **Accuracy**

Electrical energy used is measured with less than one percent error. Overall system accuracy depends on the care exercised in setting the zero load adjustment.

***Accuracy is + or - 3 percent under normal operation conditions.***

### **Maintenance**

There are no moving parts on the conveyor. The **KiloWate TP4** is rugged, simple, and dependable. Design parameters for the scale focus on the time-tested KiloWate 230 series that has served the quarry industry for over three decades.

### **How it Works**

As a conveyor goes from empty to full load condition, the motor will consume more power. Power can be measured in kilowatts and is related to tonnage. During a production day, the feed rate will range from a full belt to a trickle. The redesigned **KiloWate TP4** utilizes this curve to report tonnage accurately at 100 percent of full capacity, at no load, and all points between.

### **Installation**

Installation of a **KiloWate TP4** Belt Scale is a simple electrical connection between the motor and the starter. Nothing is connected to the conveyor belt and there are no moving parts.

### **Features**

Bright LCD displays

Rate meter reading directly in tons per hour

Weatherproof enclosure

Universal Shock Absorbent Mounting System to permit installation almost anywhere

Operation limitations:

Motor HP: 1 HP to 1000 HP

Voltage: 440 standard, 220 or 550 available

Unit can be used with various size conveyor belt widths

Options: Can be modified to monitor from 1 to 4 conveyor belts simultaneously.

Data can be sent using RS-422 to a computer.

### **Specifications**

Accuracy + or - 3 percent

Power supply 12 VDC

Shipping weight approx. 20 pounds

Made, with pride, in the USA and warranted for a full 12 months