

Wireline Weight Indicator System



Simple to operate, Low maintenance, Accurate Readings for your protection of downhole tools.

Ideally suited for use by Wireline service trucks. Our Wireline Weight Indicator systems protect your downhole tool investment by accurately monitoring the line tension to alert the operator of impending problems. These systems are hydraulically operated and come complete with a 6" Fluid filled gauge, Tension Load Cell (Sized for the application), hydraulic hose, hand pump and 1 liter of All Weather Instrument Fluid.

Features:

- 6" Fluid filled gauge with dial faces available in decanewtons, pounds, kilograms, or dual scale.
- Available in Box Mount or Panel Mount variations.
- Damper system allows operator to increase or decrease sensitivity easily to monitor the minutest changes.
- Each system is calibrated in our factory and is shipped precharged and ready to use.
- Calibration and line pull certificates are sent with the system.
- Available in the following capacities: 1000, 2000, 3000, 4000, 5000, 6000, and 10,000 pounds. Additional configurations available upon request.
- 3/16" I.D. hydraulic hose with lengths available to 33 meters.
- Optional SMARTLINE electronic software package available to record line tension, depth, tools run and time to run.

Type	Capacity	Load Cell Description
CTC-102-2	2,000 pounds	Light-weight aluminum tension load cell
CTC-104	4,000, 5,000 pounds	Steel tension load cell
CTC-107	6,000, 10,000 pounds	Heavy-duty piston-type cylinder

Benefits:

- Extremely close calibration tolerances ensure the operator of reliable readings to protect your tools while in the hole.
- Designed to operate in the harshest of climates, rated to work in temperatures of -35° to 50° C.
- Systems come in many standard variations and are configurable to many other needs.
- Simple to use allowing the operator to focus attention to downhole conditions and,
- Tension cells are quickly repairable in the field or shop.

To Order Specify:

- System Capacity required
- Dial Reading, English, Metric or dual scale
- Hose length

For decades this style of weight indicator has been a favorite for small drilling and workover rigs because of its versatility and compact size.

Each weight indicator is shipped with 10 dials so moving it from rig to rig is easy and by simply changing a dial you can switch between drill line size and number of lines strung. Each Weight Indicator system consists of a Gauge, Deadline Diaphragm connected by a high-pressure Hose and a C-Clamp to attach the diaphragm to the drill line. The deadline diaphragm works on a deflection principle, the tighter the drill line gets the more force is applied to the diaphragm which converts the deflection to hydraulic pressure and sends that pressure to the 12" gauge which displays weight. The whole weight indicator system fits into the steel case for convenient compact storage. Built-in handles make the entire system easy to transport.

Deflection-type Weight Indicator



Features:

- 12-inch gauge comes standard.
- Complete set of 10 dials included from 2-lines 7/8" to 8-Lines 1 1/4".
- Weight Indicator has two pointers, one for weight and the other for sensitivity which is a 6:1 ratio and ideal for work such as setting packers and bridge plugs.
- Standard model comes in a compact box. Larger box available to with space for 5 6" gauges and one circular recorder.
- 48,000-pound maximum single-line load with 1" drill line.
- 25-foot heavy duty hose standard. Other lengths available upon request.
- Circular recorder (optional) can record weight.
- Available in English, Metric and SI Metric.

Benefits:

- Ready for immediate use out of the crate. Each system is assembled, calibrated and tested before shipping. System is shipped as a sealed unit from the factory with All Weather Instrument Fluid.
- Two adjustable dampers, one for weight and one for sensitivity allow the operator to have full control of the desired sensitivity.
- Versatile mounting options allows the weight indicator to be mounted just about anywhere on the drill floor but the diaphragm and Indicator gauge should be mounted at roughly the same height.

To Order Specify:

- Dial reading required, English, Metric (kg) or SI Metric (daN)
- Number of Lines strung
- Size of drilling line
- Mast Capacity
- Hose length is different from standard (25' standard)

Midget Style weight indicator systems are ideal for Flusby rigs and small Work Over Rigs.

Midget style weight indicators come mounted in a sturdy box for ease of transport. The Midget weight indicator systems provide accurate weight indications for Flushby and small work over rigs. Each system comes complete with a 6" fluid filled gauge with built in damper assembly, heavy duty steel box, 9 meters of high pressure hose, load cell, hand pump and one liter of all weather instrument fluid.

Midget Weight Indicator Systems



Features:

- 6" dial face on gauge allows clear viewing from long distance.
- Rugged design over years of service has proven this gauge to be accurate and dependable in extreme conditions.
- Accurate measurements in extreme conditions — operational in ambient temperature range of -50° to 150° F (-45° to 65° C).
- Accuracy as shipped from the factory of $\pm 1/2$ of 1 percent of full scale capacity.
- Midget Weight Indicator System is provided with a 6.53 sq. inch piston type load cell which has a working capacity of 25,000 pounds single line load. Non-Spin model available upon request.
- Super Midget Weight Indicator System comes with a 16.1 sq. inch diaphragm type tension load cell which has a working capacity of 30,000 pounds single line load.
- Available in English, Metric, or dual scale divisions.
- System is shipped precharged with instrument fluid from the factory and no additional assemble is required.

To Order Specify:

- Single Line Load
- Derrick capacity
- Size of drilling line
- Number of lines strung in blocks
- Required hose length (25-foot standard)
- Dial scale required.
- Style of load cell.

16" Weight Indicator provides drillers with an easy to use and interpret way to track hook load and weight on bit.

Weight Indicators come in either a Panel-mounted version or Box mounted. These weight indicators are hydraulic and use a sensor mounted in a deadline anchor to relay a pressure signal through a heavy duty hydraulic hose that turns the signal into a reading on the gauge. This simple to use and maintain Weight Indicator has proven over the years to be accurate and economical.

Anchor-type Weight Indicators



Features:

- Various models available for deadline loads up to 200,000 pounds.
- Gauge comes complete with 2 dials, inner dial to indicate total hook load and an outer dial to display weight on bit.
- Bit weight indicator (vernier) uses a 4:1 sensitivity movement to provide a highly accurate indication of bit weight.
- System comes standard with a high pressure heavy duty hydraulic hose and disconnects.
- This weight indicator is the center piece of any drillers console and the mounting configuration makes replacement a simple procedure.
- Dampers for weight and vernier make it simple to stabilize the pointers for accurate indications.

Benefits:

- Heavy duty design ensures accuracy even in the most extreme of conditions.
- Large dial face (16") make the gauge easy to read even across the drilling floor.
- Suitable for use with all industry standard deadline anchors.

To Order Specify:

- Anchor model and part number.
- New application or replacement.
- Box or Panel mount configuration
- Single line load capacity of anchor
- English, Metric, or Decanewton dial reading
- Hose length required

For decades this style of weight indicator has been a favorite for drilling and rigs because of its versatility and compact out of way placement.

Type C Weight Indicator



Each weight indicator is shipped Calibrated to three different line reeving combinations. Each Weight Indicator comes complete with one set of "Line shoes" that are specific to a given line size. The Type C is mounted directly onto the dead line and held in place by a wing nut. The Type C works on a deflection principle, the tighter the drill line gets the more force is applied to the mechanical linkages of the Type C and that in turn converts the deflection of the line into a shown weight on the Type C. The Type C is routinely used as the sole weight indicator or merely as a backup on hundreds of rigs and has proven to be reliable in all types of conditions.

Features:

- Large dial face makes reading very easy.
- One Dial for all line sizes and reeving.
- Weight Indicator has two pointers, one for weight and the other for sensitivity.
- Type C mounts to dead line so need for extra hose runs.
- Can be used on all line sizes simple by changing Line Shoes.
- Available in English, Metric and SI Metric

Benefits:

- Ready for immediate use out of the crate. Each system is assembled, calibrated and tested before shipping.
- Type C is shipped with one set of line shoes and calibrated to your line reeving.
- Since the Type C is mounted on the dead line it can be placed out of the way and still be readable.

To Order Specify:

- Dial reading required, English, Metric (kg) or SI Metric (daN)
- Number of Lines strung
- Size of drilling line
- Mast Capacity

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