



TELEDRIIFT INC

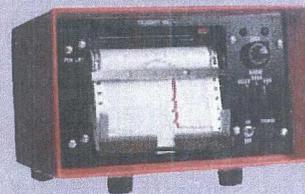
Teledrift, Inc. is committed to serving the domestic and international oil and gas industry with in-expensive, real-time surveys tools designed and optimized for vertical well drilling.

Teledrift currently offers three tools that cover the market based on desired measurements and price differentiation. The tools are designed to be robust, user friendly 'stand alone' tools that can be used and operated by the rig personnel with minimal training.

WIRELESS DRIFT INDICATOR

The Teledrift Wireless Drift Indicator is the industry-recognized leader in low-cost drift only survey capabilities. The rugged, mechanical device measures well-bore angle in one-half degree or one degree increments and transmits that information from downhole to the surface electronic recorder via

mud pulse telemetry. The first patents on mud pulse telemetry were issued for the Teledrift instrument, and the tool has been continuously improved to its current reliable, and proven state as a cost and time-saving alternative to single shot surveys.



PROSERIES MWD



Teledrift's commitment to new technology has resulted in the ProShot and ProDrift MWD tools. These fully digital, positive pulse Measurement While Drilling tools utilize the state-of-the-art technology to provide inclination and azimuth

(ProShot), or inclination only (ProDrift) in real time, on-demand format. The ProShot and ProDrift MWD are designed to improve drilling efficiency and reduce the operator's overall drilling costs.

The MWD tools have applications in the current vertical well markets as:

- Inclination and azimuth survey tools.
- Monitoring tools in the straight hole performance motor drilling market.
- Transmittable survey tools behind rotary drilling tools.
- Less expensive alternative to full-kit MWD tools when toolface updates are not required.

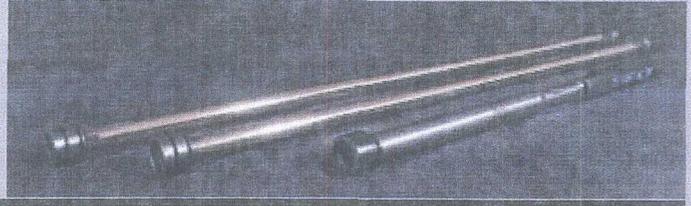


Teledrift: People Committed to Technical Excellence.

812 S.E. 83rd • PO Box 94395 • Oklahoma City, Oklahoma • 73143-4395 • (405) 631-4882

www.teledrift.com • teledrift@teledrift.com

PROSERIES ADVANTAGES



Economic Advantages

- Eliminate time required to stop drilling and run wireline survey instrument.
- Increase productive time by keeping bit on bottom drilling
- Reduce the chance of the BHA becoming stuck through minimizing time that the drill string is not moving.
- Allows more frequent surveys to be taken –
 - > Reduces hole walk problems.
 - > Pro-actively monitor the well bore and take minor corrective action through changing drilling parameters before major intervention is required.
 - > Monitor boundary and lease line situations.
- Eliminate costly trips due to mechanical failure of wireline units.

Other Advantages of the ProSeries MWD

- Operated by the rig crew with minimal training – significant savings in personnel costs.
- One tool can adjust for varying conditions over a long drilled section; eliminates the need to change the tool if drilling parameters change.
- Does not have to be assembled at the rig site by trained personnel; can be moved between wells by the rig crew.
- Compact, up-to-date technology design; easily transportable to the rig via pickup truck or other means.
- Small, self-contained surface system sets up easily and out-of-the-way in the rig dog house.
 - > Detects, decodes, displays, and stores all survey data without human intervention or corruption.



TELEDRIIFT INC

Teledrift, Inc. is headquartered in Oklahoma City, OK. Our business model incorporates agents supplying the unmanned, rig-operated tools to the end customer from numerous locations; both domestically in the USA and throughout the world.

DISTRIBUTORS

OKLAHOMA

812 S.E. 83rd
P.O. Box 94395
Oklahoma City, OK 73143
Ph: (405) 631-4882
Fax: (405) 631-8344
teledrift@teledrift.com

TELEDRIIFT ENGINEERING

2100 N. State Hwy 360
Suite 706
Grand Prairie, TX 75050-1028
Ph: (972) 352-5300
Fax: (972) 352-5353
mgopalan@teledrift.com

LOUISIANA

105 Easement Rd.
Broussard, LA 70518
Ph: (337) 837-8320
Fax: (337) 837-5057
teledrift@bellsouth.net

ARGENTINA

Acceso Sur Km. 16.5
Lateral Este y Azcuénaga
(5507) Luján de Cuyo
Mendoza
Ph: (54) 261-498 0473
Fax: (54) 261-498 6324
info@teledriftarg.com

CANADA

Bay 7, 4275 78th Ave. S.E.
Calgary Alberta T2C 2Y4
Ph: (403) 203-0840
Fax: (403) 720-5562
info@teledriftcanada.com

USA AGENTS

OKLAHOMA

Deaton Oilfield Instrumentation
404 Loomis Road
Weatherford, OK 73096
Ph: (580) 515-3962
danny@okdpm.com

EAST TEXAS

Magnum Drilling Services, Inc.
5423 W. Oak
Palestine, TX 75801
Ph: (903) 988-8094
Fax: (903) 731-9262
ben@magnumdrillingservices.com

WEST TEXAS

Gammaloy Holdings, Ltd
2150 W. 38th Street
Odessa, TX 79768
Ph: (432) 550-5600
Fax: (432) 363-6114
tildend@gammaloy.com

SOUTH TEXAS

Dennis Energy Services, Inc.
South Texas Industrial Park #5
Hwy 359 East
Laredo, TX 78044
Ph: (956) 712-1114
Fax: (956) 712-4788
Toll Free: 1-888-712-5595
dbdennis@dennisenergy.com or
mgomez@dennisenergy.com

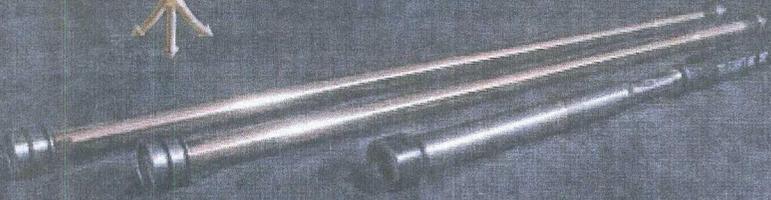
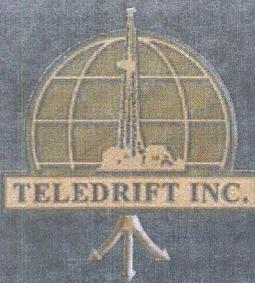
ROCKY MOUNTAINS

Survey Rentals, Inc.
2242 N. 6 Mile Road
Casper, WY 82604
Ph: (307) 234-7121
Fax: (307) 234-9085
sriwyo@aol.com

CALIFORNIA

Control Directional
100 5th Street
Isleton, CA 95641
Ph: (530) 662-0233
Fax: (530) 666-4510

PROSHOT MWD



The Teledrift ProShot MWD tool is a self-contained, positive pulse, measurement while drilling tool utilized for straight wellbore drilling. The tool itself is ~7 1/2 feet long, and fits inside its own 10 foot long non-mag drill collar. The MWD tool can be shipped to the rig site loaded inside the drill collar, ready to be picked up and loaded into the BHA by the rig crew or trained Teledrift representative.

KEY BENEFITS

Designed around a new and proprietary mud pulser and a state-of-the-art sensor package, ProShot MWD provides inclination to the nearest tenth of degree and azimuth to the nearest degree.

Combined with a sophisticated, robust, and user friendly surface display, the complete ProShot MWD system is a "stand alone" MWD tool that can be used by the rig crew with minimal training.

- Positive mud pulse telemetry system – no wireline or other equipment to run in the hole.
- Inclination resolution to .1 degrees – greater hole control through increased survey accuracy.
- Azimuth resolution to 1 degree – available azimuth w/inclination surveys for greater well control.
- Latest technology digital system with integral system checks and flags – no

guessing if the survey is good or not.

- 50 ppb Medium Nut Plug LCM capacity – usable in poor drilling conditions.
- Small surface system footprint w/touch-screen controls – can be setup in the doghouse with minimum interference.
- Operated by rig crew w/minimal training – robust, reliable system designed for minimum maintenance.
- Low daily operating cost – cost effective for the operator.

PROSHOT MWD SPECIFICATIONS

Available Tool Sizes

- 8" - 203 mm 6 5/8" REG
- 6 1/2" - 165mm 4 1/2" XH
- 4 3/4" - 122mm 3 1/2" IF

Max Operating Pressure

- 15000 PSI
- 10.34 MPa

Max. Operating Temperature

- 150° C
- 302° F

Flow Rates

- 100 to 800 GPM
- 0.38 to 3.03 m³/min

Max. LCM Content

- 50 ppb Med. Nut Plug

Max. Sand Content

- <7% Optimal

Power Source

- Lithium Battery Pack
- ~600 Hours

Transmission

- Positive Mud Pulse

Inclination Range

- 0.0° to 49.9°

Inclination Resolution

- 0.1°

Inclination Accuracy

- ±0.2°

Inclination Repeatability

- ±0.05°

Azimuth Range

- 0° to 359°

Azimuth Resolution

- 1°

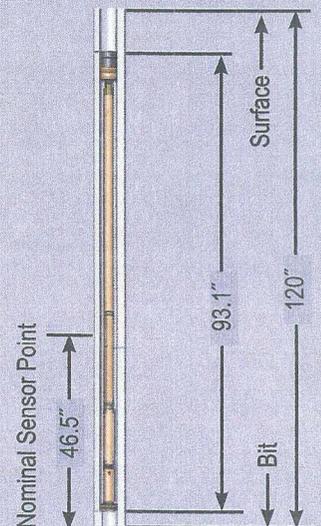
Azimuth Accuracy

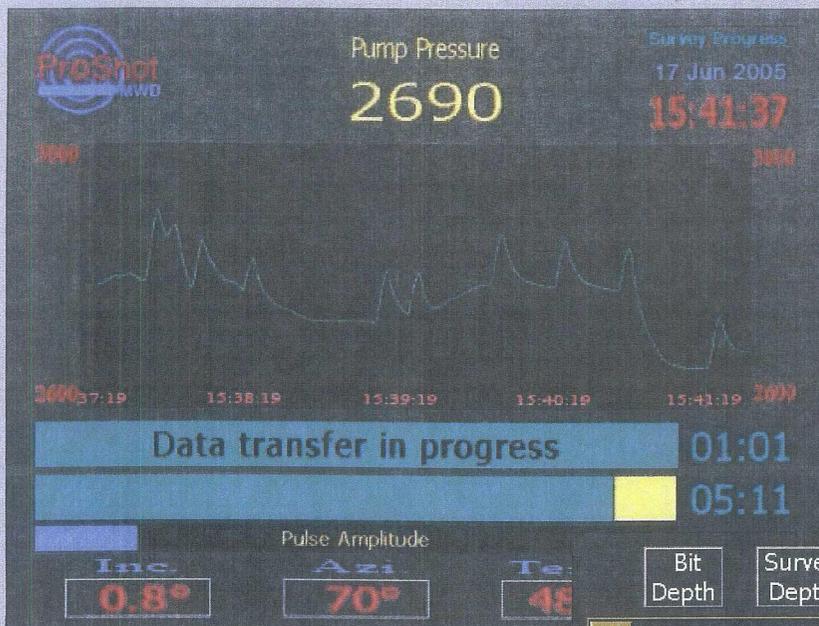
- ±3° @ (>5° Inclination)

Azimuth Repeatability

- ±0.5°

*Subject to Final Design Specs.





PUMP PRESSURE

The Survey Progress Screen provides instructions and feedback to enable easy and effective monitoring of downhole activity and telemetry.

SURVEYS

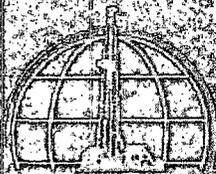
All logged surveys are visible at any time under the View/Edit Survey Screen. Manual surveys from other sources can also be entered into the system.

Accepted Surveys							
Bit Depth	Survey Depth	Time	Inclination	Azimuth			
Edit	90	90	29 Oct 21:55	11.3°	198°	Reject	⏪
Edit	100	100	29 Oct 22:03	11.3°	198°	Reject	⏩
Edit	110	110	29 Oct 22:12	11.3°	198°	Reject	⏪
Edit	230	230	30 Oct 23:24	41.6°	355°	Reject	⏩
Edit	Manual	245	2 Nov 21:29	49.9°	102°	Reject	⏪
Edit	302	302	2 Nov 21:51	49.9°	102°	Reject	⏩
Edit	340	340	3 Nov 10:36	49.9°	102°	Reject	⏪
Edit	350	350	3 Nov 10:41	49.9°	102°	Reject	⏩
Edit	480	480	3 Nov 14:32	49.9°	102°	Reject	⏪
Edit	490	490	3 Nov 14:37	49.9°	102°	Reject	⏩

Add Manual Survey Rejected Surveys Unclaimed Surveys Done



PRODRIFT MWD



TELEDRIIFT INC.



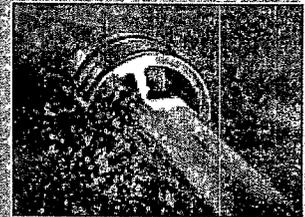
The Teledrift ProDrift MWD tool is a self-contained, positive pulse, measurement while drilling tool utilized for straight wellbore drilling. The tool itself is ~6 feet long, and fits inside its own 10 foot long steel drill collar. The MWD tool is shipped to the rig site loaded in the drill collar and is ready to be assembled into the BHA by the rig crew or trained Teledrift representative.

KEY BENEFITS

Designed around a new and proprietary mud pulser and a state-of-the-art sensor package, ProDrift MWD provides inclination to the nearest tenth (0.1) of degree. Combined with a sophisticated, robust, and user friendly surface display, the complete ProDrift MWD system is a stand-alone MWD tool that can be used by the rig crew with minimal training. The ProView Surface System detects, decodes and displays the data for the driller. When the survey is complete, the driller enters in the survey depth and accepts or rejects the survey.

- Latest technology digital system with internal system checks and flags.
- Positive mud pulse telemetry system
- Inclination resolution to .1 degrees
- Battery powered ~ 800 hrs. operating life.
- 302 F maximum operating temperature
- 50 ppb Medium Nut Plug LCM capacity
- Small surface system footprint with touch-screen controls.
- Simple interface - Operated by the rig crew w/minimal training

- Low daily operating cost
- Improved drilling efficiency
- Higher rates of penetration
- Reduced overall drilling costs



PRODRIFT MWD SPECIFICATIONS

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Flow Rates

- 100 to 800 GPM
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Max. LCM Content

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Max. Sand Content

- <7% Optimal

Power Source

- Lithium Battery Pack
- ~800 Hours

Transmission

- Positive Mud Pulse

Inclination Range

- 0.0° to 23.0°

Inclination Resolution

- 0.1°

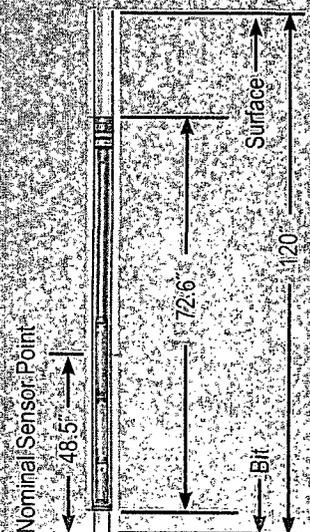
Inclination Accuracy

- ±0.2°

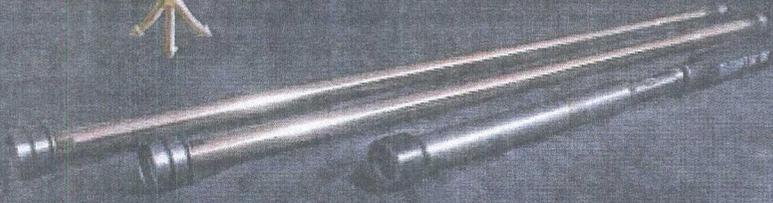
Inclination Repeatability

- ±0.05°

The ProDrift MWD tool has an integral Toico ring on the top of the tool should the rig desire to drop a single shot survey instrument onto the MWD tool.



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Inclination Resolution

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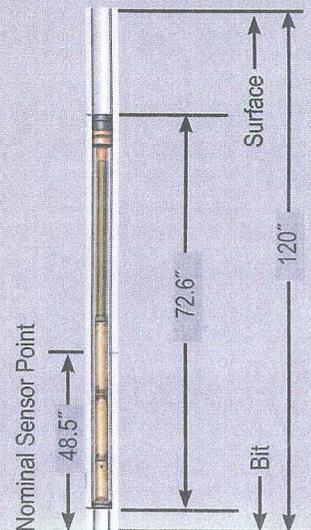
Inclination Accuracy

- ±0.2°

Inclination Repeatability

- ±0.05°

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PROVIEW SURFACE SYSTEM



The ProView Surface System is a stand-alone driller's display designed to provide the rig personnel all the functionality required to run the ProSeries MWD tools. This includes:

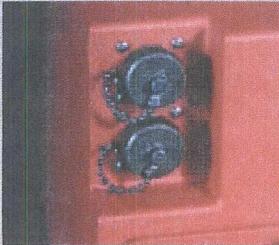
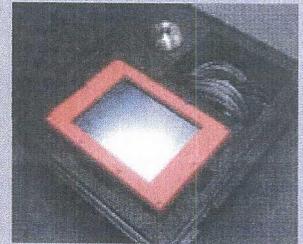
- Intuitive touch screen controls
- Integrated Data Management
- Survey Reports
- Ability to manually add survey information
- Survey tool management
- Data storage and access capabilities

Intuitive Touch Screen Controls

All functionality of the ProView Surface System is controlled by a color touch screen on the front of the box. The controls and flow of information is designed to be intuitive and user friendly.

Integrated Data Management

The ProView Surface System has built in capabilities to manage the data generated by the surface system and downhole tools. When the well is initiated, a file is generated that is unique to that well. All data collected during that drilling program is stored in that file and can be retrieved by the Well Operator or a trained Teledrift Representative. The driller can determine whether a survey is accepted or rejected, but cannot manipulate the data; thus a permanent record of all activities is generated and kept in the system. Access to job files and survey reports is done with the highest degree of confidentiality, so you can be assured that your data is not accessible to anyone but you.



Survey Reports

The surface system generates survey reports that can be reviewed and downloaded at any time. Survey reports can be downloaded to an external USB jump-drive via a port built into the surface system. They are pre-formatted in an easy to read text file and ready to print out as required.



Ability to manually add survey information

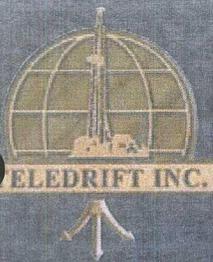
After a well file has been created, the driller can manually add externally generated surveys to the file for inclusion in the reports if desired. The process is intuitive and the screen controls will guide the driller through the data entry.

Survey tool management

The ProView Surface System offers instructions and readouts to enable the driller to be aware of the survey process at any time. When rotation is stopped, and the rig pumps are turned off, the surface system will inform the user of the steps required to obtain a valid survey from the downhole tool. Each step is carefully documented so that the driller does not have to rely on other inputs to obtain the survey.

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WIRELESS DRIFT INDICATOR

The Wireless Drift Indicator speeds the drilling process by providing almost instantaneous surface recordings of wellbore deviations, thus eliminating the need for making round trips or running survey tools on wire line into the drill pipe at required intervals.

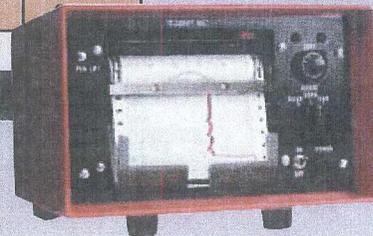
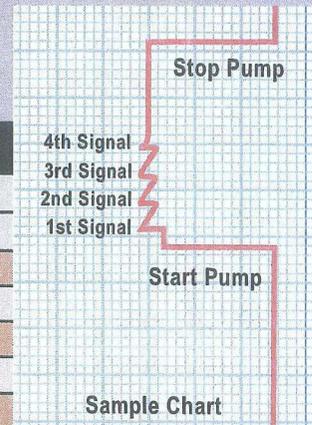
INDUSTRY LEADER

The Teledrift Wireless Drift Indicator is the industry-recognized leader in low-cost drift only survey capabilities. The rugged, mechanical device measures well-bore angle in one-half degree or one degree increments and transmits that information from downhole to the surface electronic

recorder via mud pulse telemetry. The first patents on mud pulse telemetry were issued for the Teledrift instrument, and the tool has been continuously improved to its current reliable, and proven state as a cost and time-saving alternative to single shot surveys.

Angle Range	NUMBER OF SIGNALS						
	1	2	3	4	5	6	
1/2 - 3	1/2	1	1 1/2	2	2 1/2	3	
1 - 3 1/2	1	1 1/2	2	2 1/2	3	3 1/2	
1 1/2 - 4	1 1/2	2	2 1/2	3	3 1/2	4	
2 - 4 1/2	2	2 1/2	3	3 1/2	4	4 1/2	
2 1/2 - 5	2 1/2	3	3 1/2	4	4 1/2	5	
3 - 5 1/2	3	3 1/2	4	4 1/2	5	5 1/2	
3 1/2 - 6	3 1/2	4	4 1/2	5	5 1/2	6	6+
4 - 6 1/2	4	4 1/2	5	5 1/2	6	6 1/2	6 1/2+
4 1/2 - 7	4 1/2	5	5 1/2	6	6 1/2	7	7+
5 - 7 1/2	5	5 1/2	6	6 1/2	7	7 1/2	7 1/2+
5 1/2 - 8	5 1/2	6	6 1/2	7	7 1/2	8	8+
6 - 8 1/2	6	6 1/2	7	7 1/2	8	8 1/2	8 1/2+
6 1/2 - 9	6 1/2	7	7 1/2	8	8 1/2	9	9+
7 - 9 1/2	7	7 1/2	8	8 1/2	9	9 1/2	
7 1/2 - 10	7 1/2	8	8 1/2	9	9 1/2	10	

DEVIATION ANGLE IN DEGREES



THE 'TELE' CONCEPT

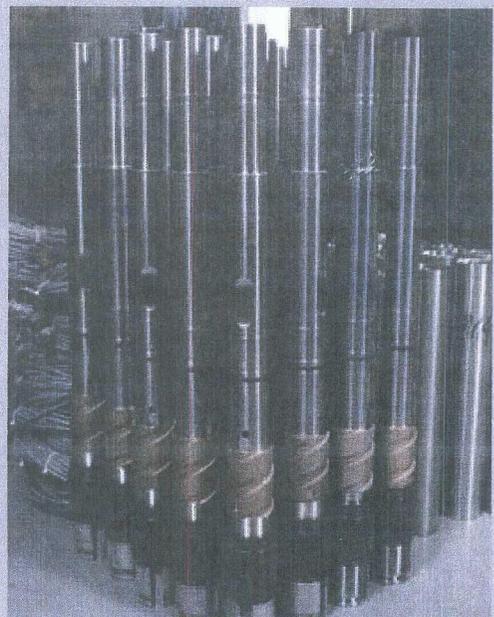
The Wireless Drift Indicator speeds the drilling process by providing almost instantaneous surface recordings of wellbore deviations, thus eliminating the need for making round trips or running survey tools on wire line into the drill pipe at required intervals.

The Wireless Drift Indicator, which is operated by rig personnel, is a rugged, stainless steel, mechanical device that measures wellbore angle in one-half degree or one degree increments and transmits that information from down hole to the surface electronic recorder via mud pulse telemetry.

Teledrift offers two versions of the Wireless Drift Indicator. The first gives

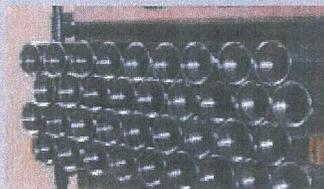
readings in one-half degree ($\frac{1}{2}^\circ$) increments, with a maximum of seven pulses equating to $3\frac{1}{2}^\circ$. The range of the tool can be adjusted to give you a maximum reading to $10\frac{1}{2}^\circ$. The second version is configured to measure in one-degree (1°) increments, with a maximum of seven pulses equating to 7° . The range of the 1° tool can be adjusted to give you a maximum reading to 9° . While on the surface at the rig site, the range on both tools can be quickly field adjusted, to read to greater maximum inclinations.

Teledrift also offers a 'Wide Angle' instrument that measures deviation in one-degree (1°) increments, up to 17° .



Available Tool Sizes

10.0" Collar	6.75" Collar
9.50" Collar	6.50" Collar
9.00" Collar	6.00" Collar
8.00" Collar	4.75" Collar
7.00" Collar	



Available Tool Ranges

$\frac{1}{2}^\circ$ - Tool Range $\frac{1}{2}^\circ$ to $10\frac{1}{2}^\circ$
1° - Tool Range 1° to 9°
Wide Angle - Tool Range 1° to 17°



Key Benefits

- Less chance of getting stuck – minimize non-drilling time.
- Faster surveys at any depth – not dependent on running instruments on wireline.
- More frequent surveys – can survey as often as desired.
- Save costly down time – track your wellbore more precisely utilizing increased number of surveys.
- Resolution to one-half or one degree.
- No hydraulic hook-ups – simple transducer, cable, surface recorder.
- Permanent record of surveys – hard paper copy of all the surveys.
- Less costly than full MWD – pay only for the information that you require.

HOW TELEDRIFT WORKS

The Wireless Drift Indicator consists of a pendulum at the bottom of the tool that moves along a series of graduated stop shoulders, and a signaling plunger at the top that traverses a series of seven annular restrictions

to produce pressure pulses in the mud stream. Plunger travel is controlled by a patented coding system so that deviation of the hole from the vertical increases the number of pulses generated. A maximum of seven

signals can be generated, each representing an increment of wellbore angle of one (1°) or one-half ($\frac{1}{2}^\circ$) degree, depending on the tool being utilized.