

DREXELBROOK®

Oil and Gas Solutions

- ||| Overfill Protection
- ||| Water-in-Oil
- ||| Mud Pit Level
- ||| Total Level
- ||| Interface Measurement

PRODUCT AND APPLICATION GUIDE



The Products You Need for the Oil & Gas Industry

Water-in-Oil Analysis

CM6™ — The CM6 is the next generation cut monitor from AMETEK Drexelbrook. For over 40 years, Drexelbrook has been using patented RF Admittance technology to measure the percentage of water in oil. Drexelbrook cut monitor systems are considered the standard at some of the world's largest oil refineries, fields and pipelines. The CM6 carries through on this tradition by adding an onboard keypad and display, which allows for fast and easy calibration. The CM-6 also provides a faster output response time for an almost instantaneous response to changing cut measurements.



Overfill Protection

IntelliPoint™ — Drexelbrook's IntelliPoint RF Admittance point level switch comes in both a line-powered and two-wire version. Both have Class I, Div. 1 hazardous area approvals, making it a good choice for all of your oil refining, field and pipeline applications. This product is ideal for overfill protection, conforming to **SIL1** and **SIL2** certifications. The sensing element designs are suitable for both high and low temperatures, pressures and all material compatibility issues. Drexelbrook's Cote-Shield™ circuitry eliminates the maintenance required with traditional mechanical switches, therefore making IntelliPoint the ideal choice to replace the high maintenance, less robust point level products commonly found in oil and refining applications.



Interface Measurement

Universal III™ — The Universal III uses RF Admittance technology to monitor and control continuous level in extreme environments found in oil refining, offshore platforms and oil fields and pipelines, as well as in natural gas processing plants. The Universal III is one of Drexelbrook's product offerings specifically designed for harsh environments. Drexelbrook is the leader in RF Admittance technology as a result of our wide range in product offerings. With over 45 years serving the oil and gas industries, we are in a unique position to provide the best possible solution to meet your level measurement requirements.



The Oil, Gas and Petrochemical industries are a major global market for Drexelbrook. Our RF Admittance point and continuous level instruments have met the extreme environments found in oil refineries, offshore platforms and chemical plants for over 45 years. Drexelbrook has a wide selection of products and technology offerings, and the expertise to apply them, affording Drexelbrook the unique position to provide the best possible solution to meet the instrumentation requirements specific to the Oil, Gas and Petrochemical Industries.

Pressure Transmitter

Model 831 — PMT Pressure Sensors Model 831 transmitters are the proven standard for oil and gas applications. The Model 831 transmitters all-welded design allows for years of stable performance in the toughest environmental and corrosive conditions. These transmitters are known for their durability, accuracy, and cost-effective fixed range features. All models are CSA approved, explosion proof and meet NACE standards for offshore applications. The low power and standard versions are FM approved with the explosion proof rating.



Process Gauge and Seal

XR-81™ — U.S. Gauge's XR-81 sets the standard in performance and reliability with an all-welded gauge and diaphragm seal system to measure pressure in many pump applications in the oil and oil refining industries. The XR-81 features a seamless bourdon tube, standard in all U.S. Gauge products, for superior performance against rupture. This gauge and diaphragm system has the highest available burst pressure performance making the XR-81 the best choice for your process gauge applications in the oil and gas industries.

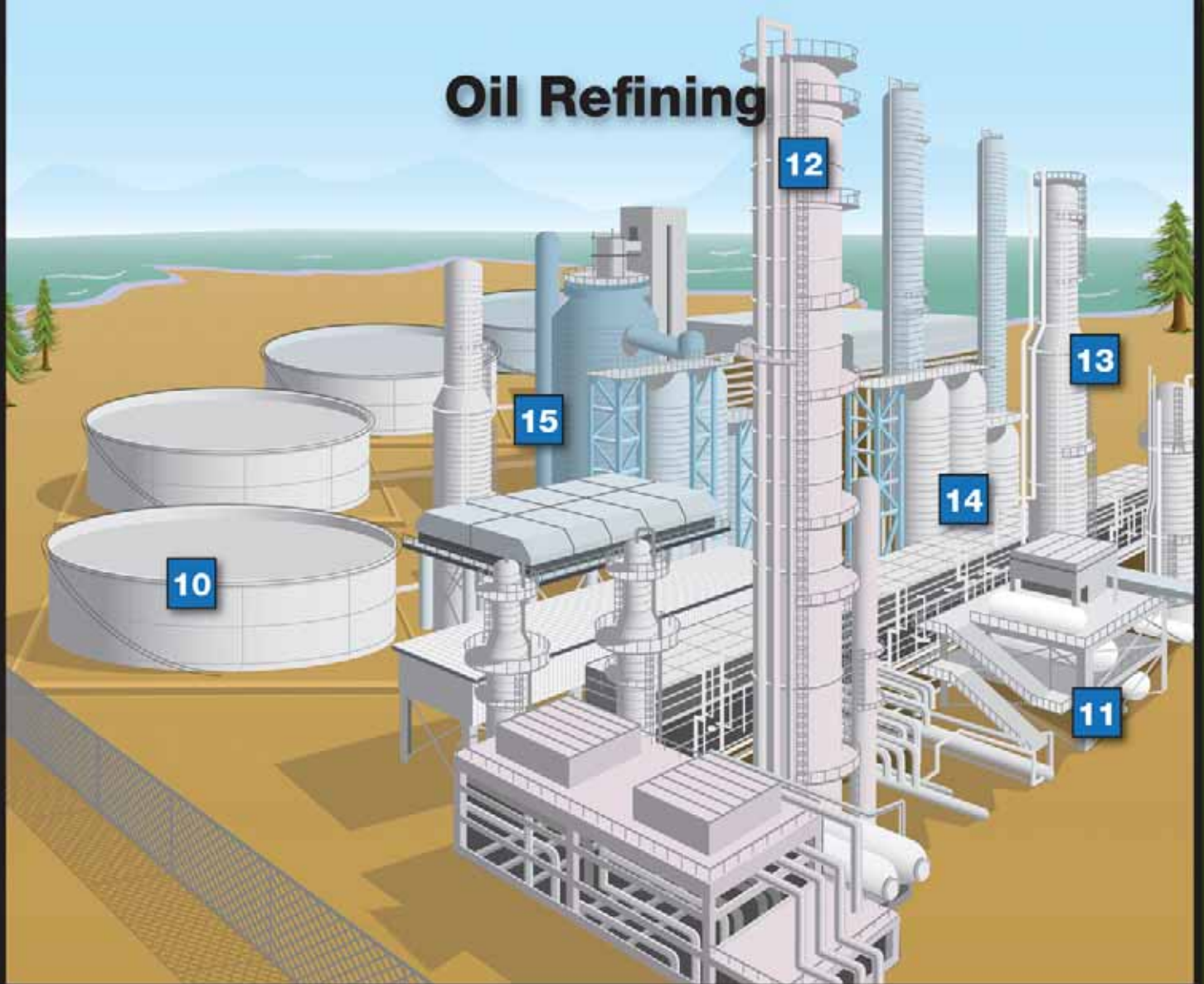


Oil Production



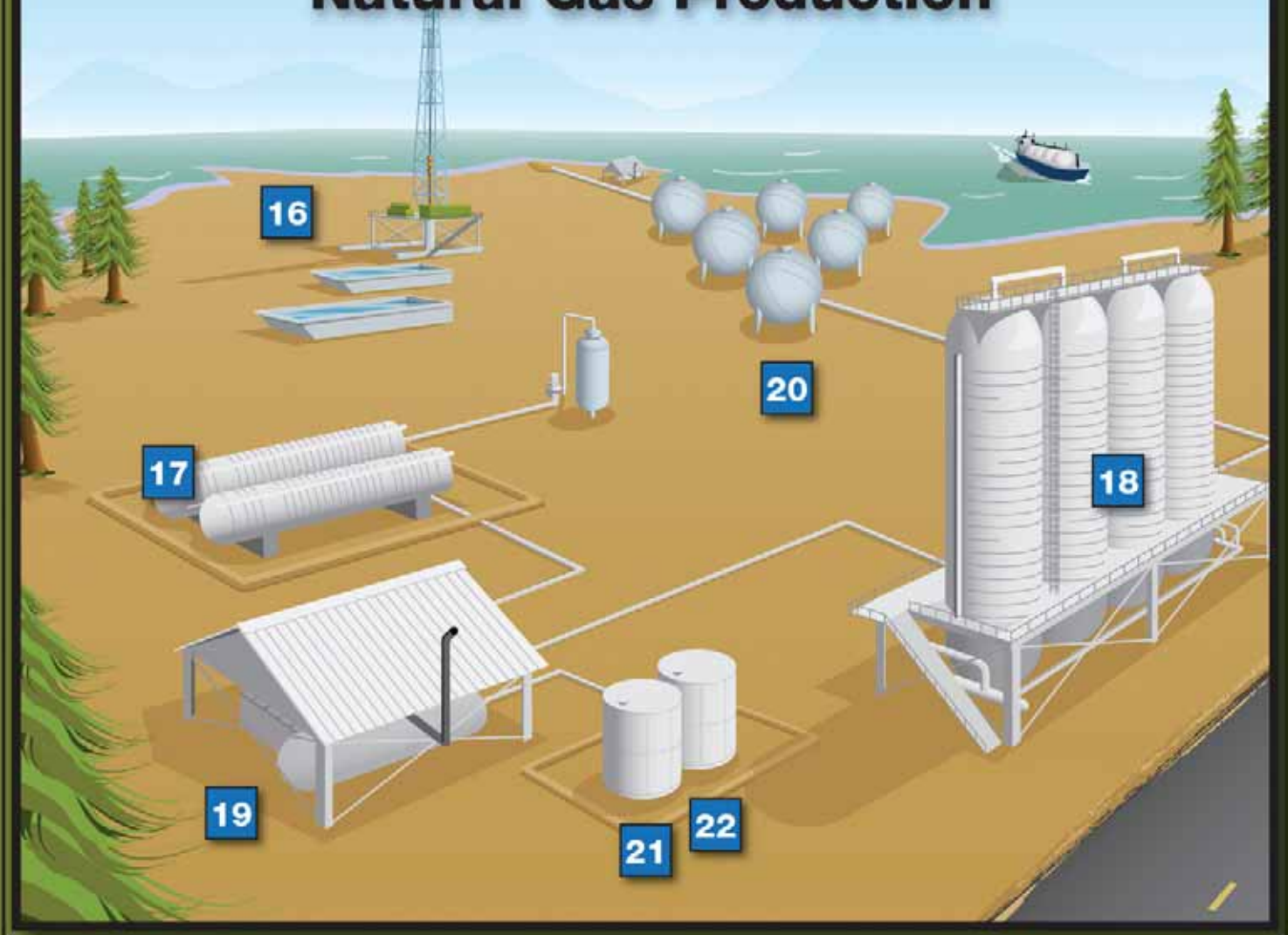
Application	Measurement	Drexelbrook Solution
1 Automatic Well Testing	Interface Control Interface Alarm Water Cut High Level Alarm	Universal III™ - Continuous Level Transmitter IntelliPoint™ - Point Level Transmitter CM6™ - Water in Oil Analyzer IntelliPoint™ - Point Level Transmitter
2 Free Water Knock-Out	Interface Control Water Dump High Level Alarm Water Cut	Universal III™ - Continuous Level Transmitter Dumpstar™ - Oil / Water Interface Control IntelliPoint™ - Point Level Transmitter CM6™ - Water in Oil Analyzer
3 Heater Treater	Interface Control Water Dump High Level Alarm Water Cut	Universal III™ - Continuous Level Transmitter Dumpstar™ - Oil / Water Interface Control IntelliPoint™ - Point Level Transmitter CM6™ - Water in Oil Analyzer
4 Stock Tank	Interface Control Water Dump High Level Alarm	Universal III™ - Continuous Level Transmitter Dumpstar™ - Oil / Water Interface Control IntelliPoint™ - Point Level Transmitter
5 Lease Automatic Custody Transfer (LACT)	Water Cut	CM6™ - Water in Oil Analyzer
6 Skim Tank	Interface Control Water Dump High Level Alarm	Universal III™ - Continuous Level Transmitter Dumpstar™ - Oil / Water Interface Control IntelliPoint™ - Point Level Transmitter
7 Flotation Cell	Interface Control	Universal III™ - Continuous Level Transmitter
8 Drilling Mud	Pit Level Sensor	USonic™ - Ultrasonic Level Transmitter
9 Pipeline Slug Detection	Water Cut	CM6™ - Water in Oil Analyzer

Oil Refining



Application	Measurement	Drexelbrook Solution
10 Tank Farms	High Level Alarm Floating / Fixed Roof Water Bottom Water Cut Spill Retention High/Low Level Alarm	IntelliPoint™ - Point Level Transmitter IntelliPoint™ - Point Level Transmitter Universal III™ - Continuous Level Transmitter CM6™ - Water in Oil Analyzer TF100™ - Vibrating Tuning Fork IntelliPoint™ - Point Level Transmitter
11 Desalter / Dehydrator	Grid - Interface Control Grid - Interface Control Interface Backup Alarm Water Cut Grid Guard	Desalter™ - Electrostatic Separator Control Universal III™ - Continuous Level Transmitter Dumpstar™ - Oil / Water Interface Control CM6™ - Water in Oil Analyzer CM6™ - Water in Oil Analyzer
12 Atmospheric & Vacuum Fractionating Columns	Interface Control	Displacer2™ - Displacer Replacement
13 Alkylation Unit	Acid / Alkylate Interface Low Level Alarm % Acid in Alkylate Analyzer Continuous Storage Level	Universal III™ - Continuous Level Transmitter Dumpstar™ - Oil / Water Interface Control CM6™ - Water in Oil Analyzer Universal III™ - Continuous Level Transmitter
14 Coker	Drum Level	DR7000™ - Radar Level Transmitter
15 Lube Oil Plant	Interface Control Water Dump High Level Alarm	Universal III™ - Continuous Level Transmitter Dumpstar™ - Oil / Water Interface Control IntelliPoint™ - Point Level Transmitter

Natural Gas Production



Application	Measurement	Drexelbrook Solution
16 Drilling Mud	Pit Level Sensor	USonic™ - Ultrasonic Level Transmitter
17 Field Dehydration	Separator Separator Condensate Tank Water Storage Tank Water Storage Tank	Universal III™ - Level Transmitter IntelliPoint™ - Point Level Transmitter DM231™ - Magnetostrictive Level Transmitter USonic™ - Ultrasonic Level Transmitter IntelliPoint™ - Point Level Transmitter
18 Gas Plant / Gas Fractionation	Liquid / Gas and Liquid / Liquid Control	Displacer ² ™ - Displacer Replacement
19 Compressor Stations	Total Level & Interface	DM231™ - Magnetostrictive Level Transmitter
20 LNG Storage	Level Control Level Control High Level Alarm LNG Discharge Alarm	DR7100™ - Level Transmitter True Level™ - Level Transmitter IntelliPoint™ - Point Level Transmitter IntelliPoint™ - Point Level Transmitter
21 Condensate Storage	Total Level & Interface	DM231™ - Magnetostrictive Level Transmitter
22 Water Storage	Water Level High Level Alarm	DM231™ - Magnetostrictive Level Transmitter IntelliPoint™ - Point Level Transmitter



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