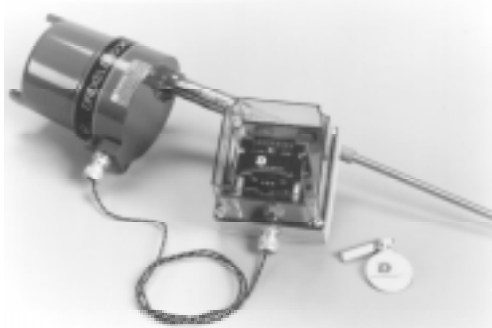




Two-Wire Point Level Control

506-6200 Series



Key Benefits

Loop Diagnostics & Self Checking Verify™ Circuitry provide the highest reliability

- Immediate fault alarm for open or short circuits of the 2-wire loop
- Verify test simulates high level to test: **electronics, calibration, presence of probe and, cable connections**

Two-wire design provides lowest cost of installation

- Twisted pair reduces cost of wire by 33% over line powered systems (3 wires)
- No line power, conduit, or pull boxes needed. Run wiring in cable trays, when available.

Intrinsically safe operation

- Agency approved intrinsically safe for hazardous location when powered from an intrinsically safe power supply
- Intrinsically-safe design lets you calibrate without sniffing hazardous areas.

Versatile for wide range of applications

- Cryogenic to 1500°F • Vacuum to 10,000 PSI • Ignores the heaviest of coatings

Meet Regulatory requirements

- EPA • OSHA • NFPA and local fire codes

Two-wire point level control offers reliability, safety, and a low total cost of ownership.

The Drexelbrook LCT™, Level Control Transmitter, is a two-wire, intrinsically safe point level control for detecting level in liquids, granulars, slurries, and liquid/liquid interfaces. It provides **dependable performance regardless of material coatings on the sensing element or density changes in the material.** Patented Cote-Shield™ circuitry gives the LCT product line unsurpassed level sensing reliability by ignoring the effects of coatings or build-up on the sensing element. All-electronic, no-moving-part design ensures low maintenance, long life, and reliable control.

Two-wire receivers are available and can be mounted thousands of yards from any hazardous field conditions. Choices range from single channel to six-point receivers with relay outputs, to the 32-channel microprocessor-based LCR™ 3200 receivers with self-checking diagnostics. Drexelbrook receivers offer intrinsically safe outputs. The LCT transmitter's **two-wire current signal is also compatible with various 4-20 mA analog input process computers and programmable controllers.**

Optional Verify™ circuitry tests the entire point level system (for high level only). A Verify test electronically simulates a high level to insure that the electronics, calibration, and cable connections are in order. It will also warn against loss of probe and unauthorized calibration desensitization.

Typical Transmitters ⁽¹⁾

Application	Press/Temp PSI @ F	O.D. & Material	Max. Rec. I.L.	Std. Mtg.	Electronics		Model Number
					Integral	Remote	
Liquid, light slurry or granulars	200 @ 450°	3/8" OD, PEEK(2) & Bare SS	6 ft.	3/4" NPT	X	X	506-6200-55
Liquids, light slurries at higher pressure	500 @ 300° 200 @ 450°	1/4" OD, TFE & Bare SS	6 ft.	3/4" NPT	X	X	506-6200-5
Granulars & slurries	500 @ 300° 200 @ 450°	1/2" OD, TFE & Bare SS	10 ft.	1" NPT	N/A	X	506-6200-22
High temperatures	1 @ 700° 0 @ 1500°	1/2" OD, Ceramic & Bare SS	4 ft.	1 1/4" NPT	N/A	X	506-6200-10
Granulars & solids in chutes	1 @ 180°	12" X 12", Polyurethane & Bare SS Flush	N/A	10" X 10" Cutout	X	X	506-6200-20
For longer lengths, 2900# test cable	1 @ 180°	1/4" OD, TFE & Bare SS Flexible	50 ft.	3/4" NPT	N/A	X	506-6200-30

(1) Other systems available to meet special application requirements. Consult factory.

(2) PEEK is a high temperature thermoplastic which is similar to TFE, but with better abrasion resistance.

Specifications

406-6200 Series Transmitters

Power Requirement: 15 to 28 Vdc standard

Output: 4-10 mA (alarm state), 14-20 mA (normal state)

Recommended Operating

Temperature: -40°F to + 140°F (-40°C to + 60°C)

Temperature Effect

(operating point):

406-6200 0.04 pF per 30°F

406-6220 0.01 pF per 30°F

Connection Cable: 3 terminal, up to 150 ft. (for greater length consult factory).

Sensing Element Spark Protection: 10A standard; 100A optional.

RFI Effect: Less than 2 pF shift in operating point for unit in explosion-proof housing from 5W field @ 27, 150, or 450 MHz at a distance of 5 ft. from exposed cable or signal wires.

Fail-Safe: Switchable to either Low-Level Fail-Safe (LLFS) or High-Level Fail-Safe (HLFS).

Sensitivity: Standard 406-6200, 0.1 pF. Optional 406-6220, 0.01 pF for powders as light as 15 lb. per cubic foot or less.

Housing: Standard housings meet the following classifications:

NEMA 1 General-purpose

NEMA 3 Weather-resistant

NEMA 4 Water-tight

NEMA 12 Dust-tight

NEMA 13 Dust-tight

Explosionproof for Class I, Groups A, B, C, D, and Class II, Groups E, F, and G.

Intrinsic Safety: Sensing element and cable are intrinsically safe for Classes I, II, III, Divisions 1 and 2, Groups A, B, C, D, E, F, G per FM and CSA. Transmitter and signal wires are intrinsically safe from an approved power source per FM and CSA. (Consult factory for details.)

For more information . . .

To find out more about point level control, contact Drexelbrook directly or your local Drexelbrook representative. We will be pleased to provide detailed specifications, pricing, and other information at your request. For Magi-Cal™ or Logic Interface options, see data sheets 406-6200-C and 401-3700-A. For microprocessor-based systems, see 506-6200-V, 506-6200-B and 601-3000-B.





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