



Customer Bid Specifications
for
Line -powered RF-Admittance Point Level Control
Drexelbrook LCS™

The point level control shall consist of three components: a 120±25 Vac, 50/60 Hz electronic unit [options: 230/120±25 Vac, 50/60 Hz or 24 Vdc], a rugged NPT or flange-mounted sensing element, and a three-terminal interconnecting cable for remote mounting of sensing element from electronic unit. The electronic unit shall be suitable for mounting up to 150 feet from the sensing element. For specific applications, an optional integrally mounted electronics and sensing element design shall be available for simplified installation. The point level control system must be capable of ignoring errors caused by coating "build-up" on the sensing element.

The sensing element shall be of rigid or flexible design and shall be rugged and be suitable for the temperature and pressure required. If required, the sensing element shall be abrasion-resistant and/or shall be made of a material that resists chemical attack. The sensing element shall be a three-terminal type, and shall contain no active electronics. The sensing element shall be furnished with a conduit that meets Nema 1-5 and 12 area classifications.

The electronic unit shall be a radio frequency admittance type, with circuitry designed to ignore errors generated by coating "build-up" on the sensing element, and shall be immune to changes in product density and ambient temperature.

Ambient temperature limits of the electronic unit shall be -40°F to 140°F. Output shall be DPDT relay contacts rated 120 Vac, 5A non-inductive, 3A inductive (or 240 Vac, 5A non-inductive, 2A inductive). A single, calibration control point shall be provided. The electronic unit shall be furnished fail-safe and be field convertible for low or high level. Operating response time shall not exceed 20 milliseconds. The electronic unit shall have an optional time delay adjustment with up to 90 seconds response time.

The electronic unit shall be mounted in a weatherproof/explosionproof housing, which shall meet Nema 1-5 and 12 area classifications.

The coaxial interconnecting cable shall be a three-conductor, driven-shield type, up to 150 feet long, and shall be used to connect the sensing element to the electronic unit.

The sensing element and cable shall be intrinsically safe for Class I, Groups A, B, C and D or Class II, Groups E, F and G (Div. 1 and 2).

The point level control system shall be Drexelbrook Engineering Co. Series 506-6000-X.



Able Instruments & Controls Limited. Cutbush Park, Danehill, Lower Earley, Reading. Berkshire. RG6 4UT. UK.
Tel: +44 (0) 118 9311188 Fax: +44 (0) 118 9312161 Email: info@able.co.uk Web: www.able.co.uk Buy Online: www.247able.com