



11/25/03

FAX COVER SHEET

TO:

FAX:

PHONE:

FROM: Field Service Coordination

PHONE: 800-426-9010

FAX: 425-402-1500

Re: Installation / Startup Checklist – Ultrasonic system, Field Service Schedule, Field Service Request

CC:

NUMBER OF PAGES INCLUDING COVER SHEET: 7

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-Confidentially Notice:

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Note:

We appreciate this opportunity to fulfill your service needs. Using Kistler-Morse Start-up service will increase your hardware's warranty from 1 year to 2 years.

A Kistler-Morse factory authorized Service Technician will provide the following:

- 1) **Aim and tune all KM transducers**
- 2) **Terminate transducers in KM junction boxes.**
- 3) **Set-up and configure all instrumentation.**
- 4) **Calibrate one Silo using customer-supplied material movement. On any additional Silo(s) the service technician will perform a manual calibration from information provided on the customers Application Data Form and any additional customer supplied information. Phone support will be available if the customer requires assistance.**
- 5) **Provide training on system calibration during start-up for two of the customer's personnel.**

If you have specific service requirements outside the scope of work listed above please contact Kistler-Morse to make the needed arrangements.

The customer will complete and make available all items outlined in the Startup Checklist. Install all transducers. Mount all level indicators and junction boxes. Provide and install all conduit. Provide and install all junction box to indicator cabling.

We look forward to meeting your service needs.

Thank You.



Installation Checklist

Ultrasonic Level System

| | |
|--|------------------------|
| COMPANY | INDUSTRY |
| ADDRESS | CONTACT Jim Elliott |
| CITY, STATE/PROVINCE, POSTAL CODE, COUNTRY | POSITION |
| TELEPHONE | FAX |

Thank you for purchasing Kistler-Morse equipment. To ensure an effective start-up, you are responsible for having the site preparation completed, as outlined on the following page, prior to the arrival of the Kistler-Morse Service Representative. Once these items are completed, fax the completed form to (425) 402-1500.

Schedule Maintenance Personnel for Training.

Two of your personnel may be trained during the start-up without adding significantly to the service technician's on-site time. If additional personnel request training during start-up, please contact Kistler-Morse Field Service Coordinator to make the appropriate arrangements.

Aiming and Tuning an Ultrasonic Systems.

Proper aiming and tuning of an ultrasonic system is dependent on the vessel being almost empty. If the vessel is more than 25% full or the vessel is being filled at the time of tuning, a less than ideal installation will be achieved. At least one of your company personnel needs to be available for training on how to tune the system for optimum performance.

If you have any questions regarding the items on this Checklist feel free to call our technical support department at 800-426-9010.

Ultrasonic Check List

| | |
|------------|----------------|
| PLANT NAME | PLANT LOCATION |
| TELEPHONE | FAX |

All equipment should be installed according to the instruction manual(s) supplied with the equipment (i.e.; dimensions, area suitability, mounting details). Correct locations of the ultrasonic transducers are important to ensure optimum performance. If you require clarification, contact Kistler-Morse Service Department at 800-426-9010 (US and

Completion Date **Completed (Check)**

- _____ **Check** Ultrasonic Transducer Locations
- _____ **Mount** Ultrasonic Transducer(s)
- _____ **Mount** Sonologic Enclosure(s)
- _____ **Mount** Temperature Sensors (if applicable)
- _____ **Lighting** Adequate lighting is available, either permanent or droplights.
- _____ **Ultrasonic Sensor Cables** Connection between the ultrasonic transducer and the Sono II made in grounded metal conduit
- _____ **Interface Interconnect** Output relay wiring, current output wiring, serial data connection or Allen Bradley RIO cable in place.
- _____ **Interconnect cable** Connection between the KM supplied junction boxes and the signal processor, 2 conductor, 18 gauge (Belden 8760).
- _____ **Power** AC power to the Sonologic Enclosure(s)
- _____ **Work permits; Company** Local and Other Governing Agencies (as required).
- _____ **Availability of Extension Cords, Ladders, Lights etc.**
- _____ **Aiming & tuning** -Low material level in the vessel(s) is required for proper aiming and tuning of the system

Name(s) of personnel to be trained:

1. _____ 2. _____

I, the undersigned, understand that if the Kistler-Morse Service Representative arrives on-site and any of the above items are not complete, we are responsible for payment of the visit, plus all subsequent charges incurred due to delays, billed at the standard daily rate. If a return visit is required to complete the start-up normal billing will apply as outlined in Kistler-Morse' North American Service Agreement. I authorize the invoicing of any additional charges that may result should this occur.

Signed _____

Date _____

Print Name _____

Position _____



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