

GENERAL CARE

GENERAL NOTES IN THE CARE AND INSTALLATION OF LOADCELLS

LOADCELLS ARE PRECISION BUILT INSTRUMENT TRANSDUCERS AND SHOULD BE TREATED WITH AS MUCH CARE AS A GLASS THERMOMETER.

- TO AVOID WELDING CURRENTS, MECHANICAL SHOCKLOAD AND VARIOUS OTHER DAMAGES, IT IS ADVISABLE TO INSTALL “DUMMY” LOADCELLS **DURING** THE CONSTRUCTION AND ERECTION OF THE WEIGHING APPLICATION.
- INSTALL MULTIPLE LOADCELL SYSTEMS WITH EQUAL DISTRIBUTION OF THE TOTAL LOAD.
- IT IS IMPORTANT TO ENSURE THAT THE MOUNTING SURFACE FOR THE LOADCELL IS FLAT AND OF SUFFICIENT STRENGTH TO CARRY THE LOAD, SO NO DISTORTION OF THE LOADCELL OCCURS.
- AVOID EXPOSURE TO THE ELEMENTS. IT IS ADVISABLE TO PROTECT LOADCELLS FROM DUST AND WETNESS BY INSTALLING A SKIRT OR SHIELD OF 1mm RUBBER SHEET.
- RUN AS MUCH LOADCELL CABLE THROUGH CONDUIT AS POSSIBLE. SHIELD FROM THE ELEMENTS!
- CHECK THE POSSIBILITY OF AN OVERLOAD AND DOUBLE CHECK THE CAPACITY WHEN APPROPRIATE FOR THE SYSTEM.
- DYNAMIC APPLICATIONS ARE BETTER OFF WHEN LOADCELL “SHOCK ABSORBERS” ARE INSTALLED.
- MAKE SURE THAT THE LOAD IS “FLOATING”. ATTACHMENTS TO THE APPLICATION CAN CAUSE A “LEAK” OF THE ACTUAL FORCE, WHICH IS THEN NOT MEASURED BY THE LOADCELLS. THERE SHOULD BE SUFFICIENT TOLERANCE IN RESTRAINTS TO PREVENT “FOULING”.
- A GOOD QUALITY INDICATOR HELPS TO OBTAIN THE BEST RESULTS OF THE INSTALLATION.

SOME SPECIFIC ACTIONS FOR DIFFERENT TYPES OF LOADCELLS:

SHEARBEAMS

USE HIGH TENSILE BOLTS FOR FIXING LOADCELL TO STRUCTURE (PREFERRED UNBRAKO GRADE 8.8).

LOAD BEARING POINT REQUIRES MINIMUM SURFACE CONTACT AREA. REFER TO LOADCELL BROCHURE.

LOW PROFILE BUTTON TYPE COMPRESSION

USE HARDENED PLATES TO SANDWICH LOADCELL IN STRUCTURE. THE PLATES CAN INCORPORATE SIDE RESTRAINTS AS WELL.

SOCKET HEAD SET SCREWS ARE THE EASIEST WAY TO SECURE LOADCELLS FOR EASE OF INSTALLATION AND SERVICE.

S-TYPE TENSION

IT IS PREFERRED TO USE ROD END BEARINGS WHEN CONNECTING THE LOADCELL TO THE STRUCTURE. HIGH TENSILE THREADED RODS ARE AN ECONOMIC ALTERNATIVE.

OVERLOAD PROTECTION MAY HAVE TO BE INSTALLED IF DAMAGE TO LOADCELL COULD RESULT IN OTHER PROPERTY DAMAGE. A CHAIN ACROSS THE LOADCELL OF CORRECT STRENGTH PREVENTS FURTHER DAMAGE.

LOADCELL SUPPLIES PROVIDES A LARGE RANGE OF ACCESSORIES TO COMPLY A SAFE AND RELIABLE INSTALLATION. PLEASE CONTACT US FOR ADDITIONAL INFORMATION TO SATISFY YOUR OWN INDIVIDUAL REQUIREMENTS.

LOADCELL SUPPLIES HAS SHARED WITH YOU THE INFORMATION COMPILED FROM LOADCELL MANUFACTURERS AND THEIR OWN EXPERIENCE OVER YEARS OF INVOLVEMENT.

UNDER NO CIRCUMSTANCES CAN **LOADCELL SUPPLIES** BE HELD RESPONSIBLE FOR ACCIDENTAL DAMAGE TO LOADCELLS AND/OR PROPERTY AND/OR PERSONS.

WE THANK YOU FOR YOUR BUSINESS AND LOOK FORWARD TO YOUR FUTURE SUPPORT.