



WEDGE SOCKET LOAD CELL

When developing new load monitoring and measurement systems for use in lifting applications, innovation and reliability of design are paramount to Imes Ltd. This focus has led to the introduction of our wedge-socket crane load indicating systems.

Capacities	5, 10, 25, 50, 100, 250	te
Full load output	1.0 nom	mV/V
Zero load output	<±0.004	%
Excitation (max)	10 (15)	V
Accuracy	<0.5	%
Repeatability	<0.10	%
Input resistance	375	Ω
Output resistance	350	Ω
Compensated temp. range	+20 to +60	°C
Operating temp. range	-30 to +70	°C
Temp. coefficient on zero	<0.050	% Capacity/°C
Temp coefficient on span	<0.030	% Capacity/°C
Safe overload	150	%
Insulation	>500 @ 100Vdc	MΩ
Environmental protection	IP68	

These systems have been designed to replace the standard wire rope dead-end. Requiring no modification to the existing wire rope reeving of the crane, simply replace the existing wedge-socket with our modified version for the same sized wire rope. The result is no loss of headroom or functionality to the crane.

Available in both radio telemetry and cabled configurations, our systems give clients maximum flexibility in choice. Together with our parts of line option, the system can be used on cranes where the parts of line alter from job to job, without having to recalibrate the load indicating system. Other available options include solar power, data logging, set points and serial I/O.

Imes wedge-socket systems are ordered based on the wedge-socket wire rope size, not crane capacity or parts of line. Selection of the appropriate systems therefore straightforward and uncomplicated.

