

Impact-o-graph® Impact Recorders

Impact Recorder

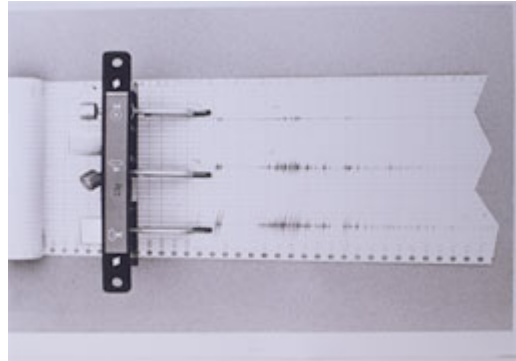
- For monitoring over-the-road driving habits.
- For monitoring impacts during coupling of rail cars.
- For detection of concealed shipping damages.
- For evaluating packaging.

What the Impact-o-graph® recorder does?

Impact-o-graph® recorders measure impacts from all directions and record their acceleration ("g") levels. The recordings are made on chart paper (no ink required) and show all impacts, their magnitude, direction, and time at which they occurred. Impacts from all three directions are recorded on one chart paper through three independently operating styli. Stylus brackets are available in a variety of combinations of sensitivities. The styli are:

1. Lateral Shock ("X" axis)
2. Longitudinal Shock ("Y" axis)
3. Vertical Shock ("Z" axis)

All models are self contained and can operate in any position except upside down. The popular M model is about 1/2 the size of a shoe box.



Stylus Assembly

The heart of the Impact-o-graph® recorder is its three independently operating mass-spring-styli sensing elements, each of which is an angular vibration system with one degree of freedom in the direction it monitors. Mechanical friction-free linkage from each stylus inertia mass converts longitudinal, lateral and vertical motions into the same plane for convenient reading of the graphs. All stylus bracket assemblies are available in various combinations of sensitivities.

How the Impact-o-graph® recorder is operated?

The Impact-o-graph® recorder should be firmly secured to the object under investigation. A stylus guard is removed. The time is set. The recorder is then turned "ON" and the cover is closed. The cover may be locked or sealed if desired.

The Impact-o-graph® recorder is supplied with an operation manual which include the calibration chart.

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nImpact Recorder Models

MODEL	CHART SPEED	CHART SPEED METRIC	CHART LIFE	BATTERY LIFE
F-12-S	12"/sec.	30.48 cm/sec.	1 min.	1 day
F-6-S	6"/sec.	15.24 cm/sec.	2 min.	5 days
F-3-S	3"/sec.	7.62 cm/sec.	4 min.	5 days
F-60-M	60"/min.	1.52 m/min.	12 min.	5 days
F-30-M	30"/min.	76.2 cm/min.	24 min.	5 days
F-15-M	15"/min.	38.1 cm/min.	48 min.	5 days
F-12-M	12"/min.	30.48 cm/min.	1 hour	10 days
F-6-M	6"/min.	15.24 cm/min.	2 hours	10 days
F-3-M	3"/min.	7.62 cm/min.	4 hours	10 days
F-60-H	60"/hour	1.52m/min.	12 hours	10 days
F-30-H	30"/hour	76.2 cm/hour	24 hours	10 days
F-15-H	15"/hour	38.1 cm/hour	2 days	10 days
F-12-H	12"/hour	30.48 cm/hour	2 1/2 days	10 days
F-6-H	6"/hour	15.24 cm/hour	5 days	10 days
F-3-H	3"/hour	7.62 cm/hour	10 days	10 days
M-4	1/2/hour	1.27 cm/hour	40 days	6 months
M-3	1/4/hour	6.35 mm/hour	80 days	6 months
M-2	3"/day	7.62 cm/day	160 days	6 months
M-1	2"/day	5.08 cm/day	240 days	6 months
M-M	1"/day	2.54 cm/day	1 year	6 months

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Ratchet Advance

