HOWARD LEIGHT
by Honeywell
HEAR. FOREVER.

NOISE THERMOMETER

Sound Energy Doubles Every 3 dB

(Example: if a 90 dB noise is doubled, it measures 93 dB)

Non-Occupational Noise

Occupational Noise

Extreme Noise Levels May Require Dual Hearing Protection, and Engineering or Administrative Controls

15 Min
30 Min
1 Hour
2 Hours
4 Hours
8 Hours

	Non-Occupational Noise	Occupational Noise
Immediate Physical Damage 160 dB	Firecracker 162 dB	Handgun 166 dB
	Shotgun 170 dB	Apollo Lift-Off 188 dB
		Rifle 161 dB
		Artillery Fire 162 dB
Maximum Allowable Exposure, Even with Hearing Protection 140 dBC	Balloon Pop 157 dB	Jet Engine Take-Off 150 dB
	Engine Backfire 140 dB	Bicycle Horn 143 dB
		Dynamite Blast 140 dB
Immediate Pain Threshold 130 dB	Noisy Squeeze Toys 135 dB	Pig Squeal 130 dB
		Pneumatic Drill 130 dB
Short Exposures at This Level May Cause Hearing Damage and Ringing in Ears 120 dB	Car Racing 130 dB	Oxygen Torch 121 dB
	Thunder 120 dB	Hammer on Nail 120 dB
	Jet Plane at Ramp 120 dB	
	Rock Concert 120 dB	Generator 116 dB
	Chainsaw 118 dB	
	Stadium 117 dB	Compactor 116 dB
	Crying Baby 110 dB	Ambulance Siren 112 dB
	CD Player 105 dB	Impact Spanner 102 dB
Extremely Loud 100 dB	Motorcycle 105 dB	Diesel Truck Accelerating 114 dB
	Power Lawnmower 94 dB	Bulldozer 100 dB
	Underground Railway 90 dB	Industrial Fire Alarm 95 dB
		Table Saw 93 dB
Hearing Protection Required for 8-Hour Exposures Above This Level 85 dB	Cockpit of Propeller Airplane 88 dB	Forklift 87 dB
	Smoke Alarm 85 dB	Blender 85 dB
		Lift 85 dB
Hearing Protection Recommended for 8-Hour Exposures Above This Level 80 dB	Hair Dryer 80 dB	Handsaw 85 dB
		Ringing Telephone 82 dB
Non-Hazardous 75 dB	Vacuum Cleaner 74 dB	Alarm Clock 75 dB
		Waste Disposal 80 dB
		Lathe 81 dB
Comfortable 50 dB	Sewing Machine 60 dB	Microwave Oven 58 dB
	Dishwasher 60 dB	
	Background Music 50 dB	Rainfall 50 dB
		Normal Conversation 60 dB
		Large Office 50 dB
	Flowing Stream 50 dB	Paper Rustling 50 dB
		Transformer 50 dB
Threshold of Audibility 20 dB	Quiet Library 40 dB	Quiet Office 40 dB
	Quiet Residential Area 40 dB	Refrigerator 43 dB
	Audible Whisper 30 dB	
0 dB	Normal Breathing 10 dB	

Permissible Exposure Limits
(EU Hearing Directive 2003/10/EC)

www.honeywellsafety.com

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