The Evron Centre, John Street, Filey,
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Pulsar 5/7 Series for Noise at Work

- Simple and user friendly
- Compact with robust construction
- Compliance to all the appropriate standards

Industrial and environmental sound monitoring situations have exacting requirements of sound level meters. That is why Pulsar Instruments produce the Series 5 & 7 digital sound level meters that are designed to meet the needs of the professional whilst being simple and user friendly enough for the new user. The use of simple switches for most functions means that making initial measurements and flicking between different settings is child's play, there are no complex menus to learn and switching between different frequency and time weightings is as easy as turning on a light.

Pulsar sound level meters are housed in durable die-cast metal cases, this minimises the effects of electro-magnetic radiation and makes them robust enough to withstand industrial and factory environments. Pulsar sound level meters are either Type 1 or Type 2 dependant upon the microphone used. Type 1 instruments have a removable pre-amplifier and so have the added convenience of being able to use them with an extension cable. This is recommended as an extension cable prevents interference of sound waves that are reflected off the user and the casing of the sound level meter, thus increasing accuracy.

Pulsar sound level meters conform to all the appropriate British, European and International standards. The Type 1 instruments conform to the precision grade whilst the Type 2 to the general-purpose grade of IEC 60651 or IEC 60804. Filters used in the octave analyser also conform to the relevant standards.

Pulsar Instruments have been at the forefront of sound level meter design and construction for over 30 years, making them one of the oldest manufacturers in the world. Whatever your needs may be, there is an instrument in the series to suit them, from a reputable and respected company.

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Ordering and Accessories

We usually supply all of the sound level meters as complete kits and these contain the sound level meter, acoustic calibrator, manuals and windshield in an attaché case; to order kits simply put 'kit' in front of the Pulsar number, for instance the Pulsar 74 becomes Kit 74.

The sound level meters can be ordered individually, in which case the protective carrying case (C2) is recommended. To obtain the full benefit of the Type 1 sound level meters a 2m extension cable (CB2) is recommended.

An acoustic calibrator (Pulsar 100 or 101) should always be used before and after any measurement, not because sound level meters drift, but simply there is no other way of being sure that the meter is accurate during the measurement.

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Specification

Common To All Instruments		Pulsar 71 & 72	
Standardisation	IEC 60651 (BS EN 60651) Type 1 or Type 2. IEC 60804 Type 1 or Type 2 (Pulsar 71 – 74). IEC 61672 (2001 draft) Class 1&2	Functions	*As Pulsar 51 & 52 plus Equivalent Sound Level, L_{eq} Equivalent Personal Daily Noise Exposure, $L_{EP,d}$ True Peak (C weighted) SPL or L_{max}, L_{eq} and Peak (C) all measured concurrently
Weightings	Frequency: A & C Time: F (Fast), S (Slow) & I (Impulse)	Range	**P71** 27-140dB(A), 36-140dB(C) and 60-143dB(C) Peak **P72** 32-140dB(A), 60-140dB(C) and 60-140dB(C) Peak
Display	3½ digit LCD with overload, under range, over range, low battery, display hold	Physical	**P71** 325x75x26mm 515g **P72** 230x75x26mm 460g
Outputs	AC 2.2 volts fro FSD and log DC at 25mV/dB with continuous range from 25 to 140dB	* No back light or battery level indicator	
Environmental	Temperature from –10ºC to +50ºC Humidity from 10 to 95% RH Non-condensing	**Pulsar 73 & 74**	
Power	2 x 6LR61 9v batteries to provide over 40 hours continuous (broad band) operation	Standardisation	Filters are to IEC 61260 and IEC 225
Pre-amplifier	Type 1 Removable Type 2 Fixed as standard	Functions	As Pulsar 71 & 72
Pulsar 51 & 52		Frequency	A, Lin and 10 octave bands from 31Hz-16kHz. C for L_{pk}
Functions	Sound Level SPL Maximum Sound Level L_{max} Display Hold Battery Level Display Backlight	Amplitude	True energy integration without time weighting (Q=3)
Ranges	**P51** 25-140dB(A) and 43-140dB(C) for SPL and L_{max} **P52** 32-140dB(A) and 43-140dB(C) for SPL and L_{max}	Ranges (Broadband)	**P73** 27-140dB(A), 47-140dB(Lin) **P74** 32-140dB(A), 50-140dB(Lin) Both 60-143dB(C) for L_{pk}
Physical	**P51** 325x75x26mm 505g **P52** 255x75x26mm 455g	Physical	**P73** 325x75x26mm 520g **P74** 255x75x26mm 465g