

# LAMPIRAN



DEPARTEMEN PENDIDIKAN DAN KEBUDAYAAN

FAKULTAS ILMU SOSIAL DAN ILMU POLITIK UNIVERSITAS AIRLANGGA

JALAN AIRLANGGA NO. 4 • 6 SUFABAYA • 60286 TELP. (031) 522494, FAX. 522494

NO. : 1656/PT03.H5.FISIP/N/XI/1994  
Lamp. : -  
Hal : Permohonan Ijin Observasi

Surabaya, 4 Nop. 1994

Kepada Yth.  
Kepala PUSARPEDAL  
Pusat Penelitian Ilmu Pengetahuan, Dan Teknologi  
Jln. Raya Puspiptek Serpong  
di  
TANGERANG

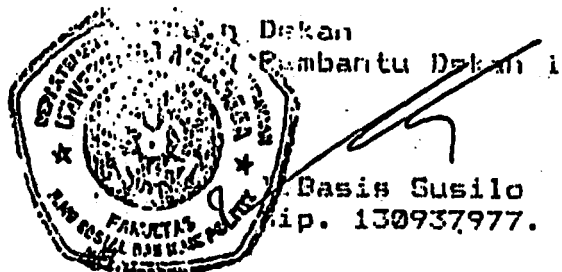
Dalam rangka meningkatkan efektifitas belajar mengajar di Fakultas Ilmu Sosial Dan Ilmu Politik Universitas Airlangga, Mahasiswa kami selain menerima teori-teori di kelas, juga diarahkan langsung pada obyek studi sesuai dengan mataajaran yang sedang mereka tekuni, yaitu mataajaran "Penulisan Skripsi"

Sehubungan dengan hal tersebut di atas, kami mengharap agar Saudara tidak berkeberatan memberikan ijin, informasi serta bantuan kepada mahasiswa kami untuk mengadakan observasi di Instansi Saudara.

Mahasiswa tersebut adalah :

N A M A : Karyawati Utami  
N.P.M : 079012902  
Prog.Studi : Sastra Indonesia

Demikian atas perhatian serta kerjasama Saudara, sebelumnya kami mengucapkan terima kasih.



**BADAN PENGENDALIAN DAMPAK LINGKUNGAN  
(BAPEDAL)**

Jakarta, 22 Nopember 1994

Nomor : B-2118 /III/11/1994  
Lampiran : -  
Perihal : Ijin Observasi

Kepada Yth.  
Dekan  
u.b. Pembantu Dekan I FISIP  
Universitas Airlangga  
di  
Surabaya

Menunjuk surat Saudara Nomor :  
1656/PT03.H5.FISIP/N/XI/1994 tanggal 4 Nopember 1994  
perihal di atas, bersama ini diberitahukan bahwa pada  
prinsipnya kami tidak menaruh keberatan terhadap  
keinginan untuk melakukan observasi dimaksud pada  
Pusat Sarana Pengendalian Dampak Lingkungan  
(PUSARPEDAL) oleh Mahasiswa Saudara :

N a m a : Karyawati Utami  
N.P.M : 079012902  
Program Studi : Sastra Indonesia

Untuk selanjutnya kami menunjuk Sdr. Ir. Wisnu Eka  
Yulyanto. (Staf Lab. Kebisingan PUSARPEDAL) guna  
mendampingi Mahasiswa Saudara.

Di akhir penulisan, sudi kiranya Saudara memberikan 1  
(satu) salinan karya tulis tersebut kepada kami untuk  
mengisi perpustakaan PUSARPEDAL.

Atas perhatian Saudara dan kerjasama Saudara,  
kami ucapkan terima kasih.

BADAN PENGENDALIAN DAMPAK  
LINGKUNGAN

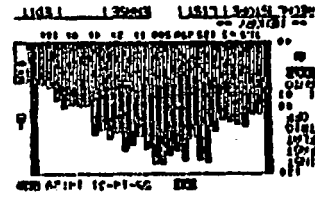
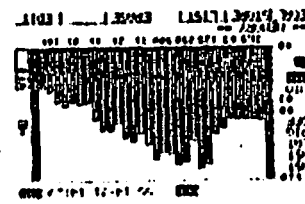
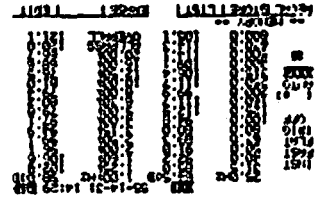
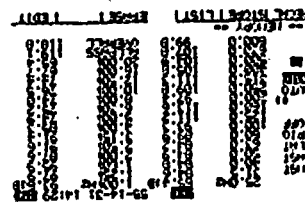
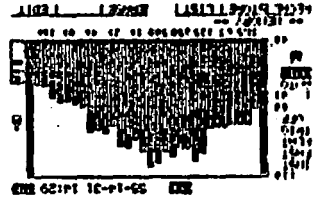
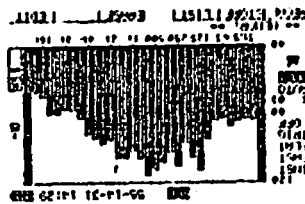
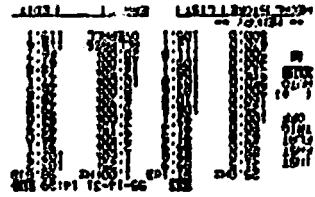
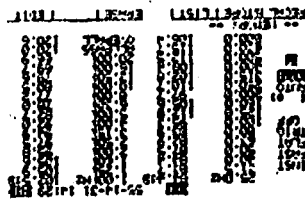
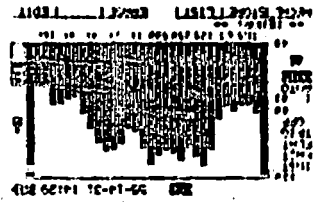
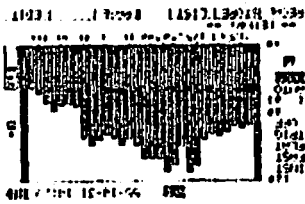
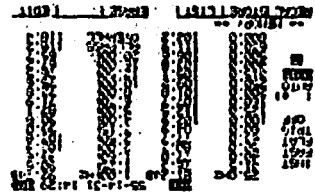
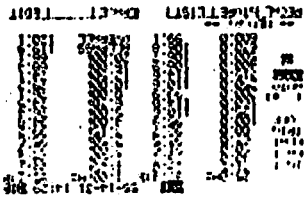
Pjs. Sekretaris,

  
Sidik Poernomo, MPA

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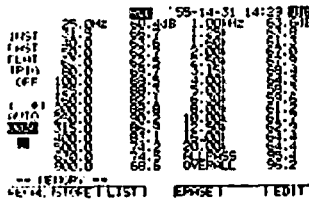
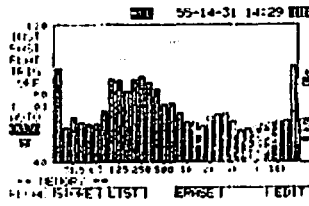
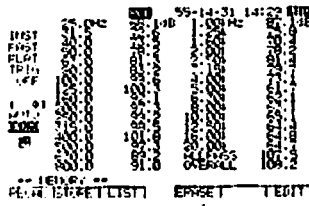
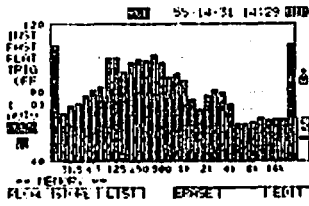
Tembusan Yth. :

Sdr. Karyawati Utami, Mahasiswa FISIP UNAIR untuk diketahui.

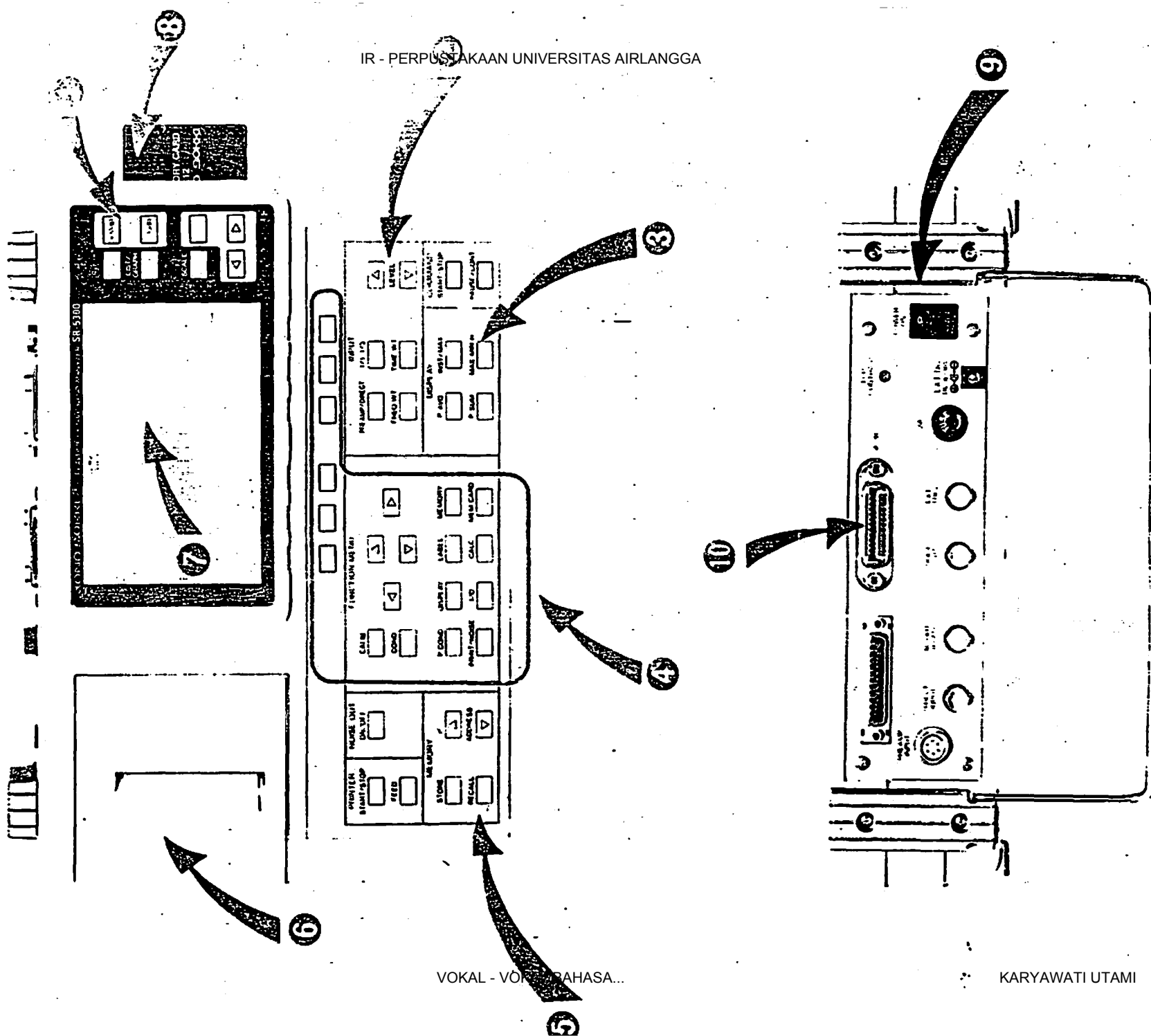


DATA DARI SPEKTRUM

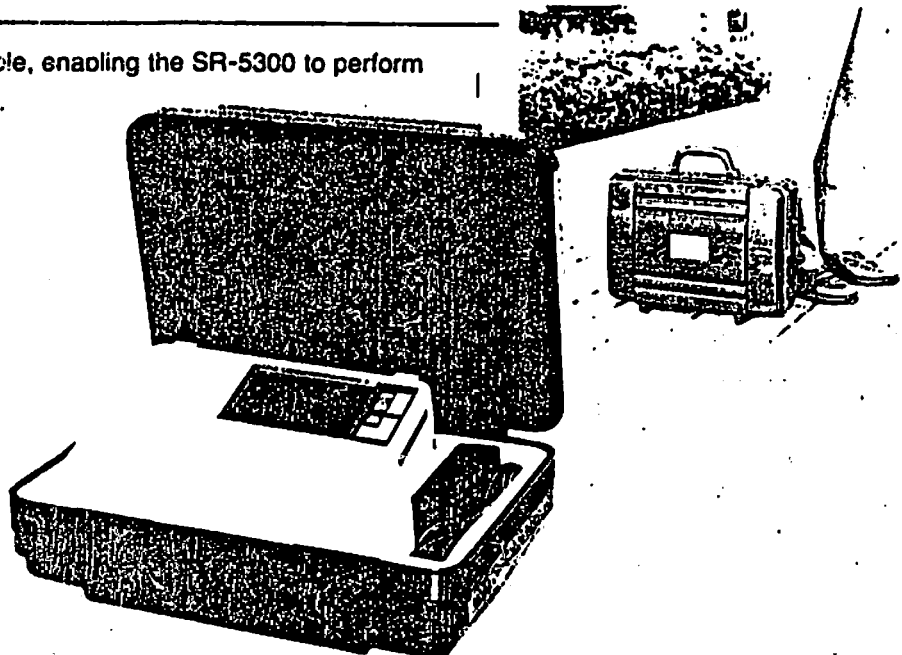
Lampiran 3



Tampilan 4  
GAMBAR SPECTROGRAM



- ① Keys for selection of bar or list display, marker movement, backlight on/off switching, and display screen operations are located for easy operation.
- ② Basic operations such as selection of 1/1- or 1/3-octave filters, level range, time constant, and frequency compensation are possible using a single key.
- ③ Single-key selection of such items as instantaneous data, power average value, and maximum value.
- ④ Details settings of such functions as level calibration, trigger condition settings, and memory operations are set by using a combination of dedicated panel keys and function keys F1 through F6.
- ⑤ Single-key execution of storage of data into or recall of data from memory are possible.
- ⑥ A printout of the screen image is possible in just 9 seconds, using the built-in thermal printer.
- ⑦ Data is presented on an easy-to-read backlit liquid-crystal display screen, with backlighting switched off automatically during printout to save battery life.
- ⑧ Data can be stored not only in 128 Kbytes of internal memory, but onto an IC card as well (conforms to JEIDA version 4.1).
- ⑨ **Rear panel**  
Two input connectors are provided: one for a dedicated preamp and one (BNC) for general-purpose inputs.  
All inputs and outputs, including AC output, external trigger input, noise output, and RS-232C interface are gathered on the rear panel.
- ⑩ An optional GPIB is also available, enabling the SR-5300 to perform in larger measurement systems.



# Specifications

<b>Number of channels</b>	1		
<b>Filtering method</b>	Digital		
<b>Filter bandwidths</b>	1/3 octave (IEC 225-1966, ANSI S1.11 Class III-1986)		
	1/1 octave (IEC 225-1966, ANSI S1.1, Class II-1986)		
<b>Frequency range (center frequencies)</b>			
	<b>High range:</b> 25.0 Hz to 20 kHz (1/3 octave, 30 bands)		
	31.5 Hz to 16 kHz (1/1 octave, 10 bands)		
	<b>Middle range:</b> 3.15 Hz to 2.5 kHz (1/3 octave, 30 bands)		
	4 Hz to 2 kHz (1/1 octave, 10 bands)		
	<b>Low range:</b> 0.8 Hz to 630 Hz (1/3 octave, 30 bands)		
	1 Hz to 500 Hz (1/1 octave, 10 bands)		
	* Frequency ranges are selectable.		
<b>Time constant</b>	10, 35, 125 (fast), 830 ms, 1 s (slow), 8 s		
<b>Frequency compensation</b>	<ul style="list-style-type: none"> <li>• Auditory sensitivity compensation (A-weighting, C-weighting, flat)</li> <li>• Vibration sensitivity compensation (<math>V_H</math> whole body-X/Y, <math>V_V</math> whole body-z, <math>V_{com}</math> whole body vibration level combined, <math>V_{hd}</math> hand-arm, flat)</li> <li>• User-defined frequency compensation (12 types)</li> </ul>		
<b>Inputs</b>	Direct (BNC) Preamp (for MI-3220, NP-4110, NP-4120) * The preamp input can be used as an acceleration pickup input by using a Microdot <sup>®</sup> connector adaptor.		
<b>Input amplifier</b>	6 amplification levels (10-dB steps, with vernier adjustment)		
<b>Dynamic range</b>	80 dB (typical)		
<b>Linear operating region</b>	70 dB (+0.5 dB, typical)		
<b>A-D resolution</b>	16 bits		
<b>Measurement specifications</b>	<ul style="list-style-type: none"> <li>• Instantaneous level (INST)</li> <li>• Band maximum-value over 1 s (MAX.)</li> <li>• Band maximum-value hold (MIN. H)</li> <li>• Overall maximum-value hold (MAX. H)</li> <li>• Band minimum-value hold (MIN. H)</li> <li>• Overall minimum-value hold (MIN. H)</li> <li>• Average power value (P AVG)</li> <li>• Total power value (P SUM)</li> <li>• Secondary processing  <math>L_1, 9</math> values (<math>L_1, L_5, L_{10}, L_{20}, L_{50}, L_{95}, L_{99}</math> MAX. H, MIN. H)            Level trend (level variations, with time plotted along the horizontal axis)            1/1 octave (synthesized from the 1/3-octave filter bands)</li> </ul>		
<b>Display</b>	Liquid-crystal display (backlighted) Dot matrix: 320 x 200 dots (Real-time display)		
<b>Displayed data</b>	<ul style="list-style-type: none"> <li>• Bar-graph (quasi-analog)            1/3- (or 1/1-) octave 30 (or 10) bands            + ALL PASS            + OVERALL            (summed power for all bands)</li> </ul>		
			<ul style="list-style-type: none"> <li>• List format            Numeric data            (Memory recall display)</li> <li>• Bar graph (quasi-analog)</li> <li>• List format</li> <li>• Level vs time (trend) of any desired filter (Dual display)</li> <li>• Simultaneous display of memory recall data and current data (bar graph)</li> <li>• Display of difference between memory recall data and current data (bar graph, list)            1st marker, 2nd marker, delta (level difference between 1st and 2nd markers), partial overall (summed band powers of 1st and 2nd markers)            * Reading can be selected as either dB or linear.            Horizontal axis: frequency, time            Vertical axis: dB, linear</li> </ul>
		<b>Markers</b>	
		<b>Display format</b>	
		<b>Display resolution</b>	0.1 dB
		<b>Memory</b>	Internal memory, storage capacity: 128 KB
		<b>Memory contents</b>	(1) Block memory <ul style="list-style-type: none"> <li>• Separate storage of INST, MAX, MAX. H, MIN. H, P, AVG, and P. SUM</li> <li>* Storage of 100 values is possible.</li> </ul> (2) Auto Memory <ul style="list-style-type: none"> <li>• Continuous storage of MAX, H, MIN, H, P, AVG, and P. SUM</li> <li>• Storage of INST values continuously at an interval of 1, 2, 5, 10, 20, 50, 100, 200, 500 ms, 1, 2, 5, or 10 s.</li> <li>* Storage of 1000 values is possible.</li> </ul> (3) User memory <ul style="list-style-type: none"> <li>• 12 types of user-specified frequency compensation (2 types each for 1/1- and 1/3-octave for each frequency range)</li> </ul> (4) Panel condition memory <ul style="list-style-type: none"> <li>• Storage of up to 4 sets of panel settings</li> </ul>
		<b>Printing section</b>	Thermal line printer, approx. 9 s/L size * Printing paper width: 58 mm Printing width: 48 mm
		<b>Trigger section</b>	Internal triggering (level settable) External triggering
		<b>Outputs</b>	AC (flat), $\pm 1$ V F.S Noise (white and pink noise; 33-stage maximum-length shift-register sequence)
		<b>Interface</b>	RS-232C provided as standard.
		<b>Power requirements</b>	Eight alkaline type R20 (ANSI type D) batteries (Battery life is approx. 26 hours) AC adaptor (external 12-VDC power) * A special plug cord enables powering the SR-5300 from an automotive battery.
		<b>Operating temperature range</b>	0 to + 40°C
		<b>Operating humidity range</b>	45 to 85% relative humidity (with no condensation)
		<b>Dimensions</b>	Approx. 300 (W) x 235 (D) x 87 (H) mm
		<b>Weight</b>	Approx. 3.6 kg (including batteries)
		<b>Accessories</b>	Printer paper (1 roll) AC adaptor (PB-7053) AC cable (AX-203) 3-pin-to-2-pin conversion adaptor (CM-32) Type R20 (ANSI type D) alkaline batteries (8), IC memory card cap, carrying case, shoulder strap