



Lintel

Automated laboratory equipment for quality control

Automated Pensky Martens flash point analyzer (closed cup)

***Lintel*[®] ATV-21**

Passport

Automated Pensky Martens flash point analyzer

Lintel® ATV-21	02	AIF 2.821.025-02		__ . __ . 20__
(type)	(version)	(designation)	(serial number)	(production date)

1 PRINCIPAL TECHNICAL DATA AND CHARACTERISTICS

- 1.1 Lintel® ATV-21 automatic laboratory tester (hereinafter analyzer) is designed for petroleum product testing in the closed cup as per ISO 2719 (methods A and B), ASTM D93 (methods A and B).
- 1.2 Field of application - laboratories of industrial enterprises and organizations, research institutes.
- 1.3 The analyzer is made in the climatic version of the group-moderate and cold macroclimatic regions.
- 1.4 Performance data of the analyzer given in table 1.

Table 1 – Performance data

Parameter	Unit of measurement	Value
Flash point range	°C	from +12 to +370
Voltage	V	from 198 to 242
Frequency	Hz	from 49 to 51
Power consumption, max:		
- under test mode	V·A	750
- under standby mode	V·A	120
Ambient air temperature	°C	from 10 to 35
Relative air humidity at +25°C, max	%	80
Barometric pressure range	mm Hg	from 680 to 800

- 1.5 Weight and dimensions of the tester given in table 2.

Table 2 – Weight and dimensions

Parameter	Unit of measurement	Value
Dimensions (with the cup installed) (width × height × depth)	mm	420 × 310 × 455
Weight, max	kg	15

1.6 The accuracy parameters of the tester given in table 3.

Table 3 – Accuracy parameters

Product under test	Flash point range, °C	Repeatability r, °C	Reproducibility R, °C
ISO 2719 Method A			
ASTM D93 Method A			
Paint and varnish	-	1.5	-
Distillate fuels and fresh lubricating oils	from 40 to 250	0.029X ¹	0.071X ¹
ISO 2719 Method B			
ASTM D93 Method B			
Residual fuels and fluxed bitumen	from 40 to 110	2.0	6.0
Used lubrication oil	from 170 to 210	5.0	16.0
Liquids prone to surface film formation; liquids with suspended solid materials, high-viscosity products	-	5.0	10.0

ATTENTION

Accuracy parameters given in Table 3 are not applicable for assessment of results obtained while testing products with unknown flash point (“Express” method).

ATTENTION

The analyzer does not use gas, because the product vapors are ignited by electrical spark.

1.7 Software Identification features given in table 4.

Table 4 – Software identification features

Sign	Value
Version	6.00
Checksum	E7B82D07

¹ X is the average value of the compared test results.

SCOPE OF SUPPLY

Designation	Name	Q-ty	Note
AIF 2.821.025-02	Automated Pensky Martens flash point analyzer <i>Lintel</i> ® ATV-21	1	
AIF 2.107.100	External protection module	1	
AIF 2.821.025-02 RE	Operating manual	1	
AIF 2.821.025-02 PS	Passport	1	
AIF 2.821.025-02 MA	Certification program and procedure	1	
	Supplies		
AIF 6.210.075	Cup with cover	2	

- failures of the product due to non-compliance with the rules of operation;
 - mechanical damages of the tester caused by negligence in the operation of;
 - damage caused by careless transportation;
 - damage caused by foreign objects, dust, substances, liquids, insects, rodents entering the product;
 - damage caused by a natural disaster (thunderstorm, lightning, flood, etc.);
 - damage caused by non-compliance with state standards for power supply network parameters;
 - Communications port (COM port) failure caused by connecting / disconnecting the peripheral device when the power is turned on;
 - any other reason that is not related to the product's manufacturing defect.
- 4.12 The manufacturer guarantees that the accuracy parameters confirmed during the initial certification after transportation remain unchanged.

5 RECLAMATION PROCEDURE

- 5.1 Reclamations are made subject to keeping records of malfunctions during operation (see Appendix A). Send the fault record list to the manufacturer with a cover letter.
- 5.2 To make a reclamation, please contact the following contact:

Contact information:

Phone: +7 (347) 284-28-32

General and Technical Support Requests: lintellab@gmail.com

Website: www.bashnxa.com

APPENDIX A

A SAMPLE LIST OF FAULTS

Automated Pensky Martens flash point analyzer

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FAULT RECORDING AT OPERATION

Fault date Operation mode Load type	Fault type Fault cause	Q-ty of operating hours	Notes

<u> </u>	<u> </u>	<u> </u>	<u> </u>
(position)	(Name)	(signature)	(date)