INSTRUMENTS ATA GLANCE





VAPOR PRESSURE



FUEL ANALYSIS



MINISCAN IR Vision

- Portable, fast FTIR spectrometer
- Multi-fuel analyzer for gasoline, diesel, jet fuel and blends
- Built-in density meter
- Temperature and laser regulated

100+ Fuel Parameters Analyzed

- Fast and comprehensive analysis of 100+ fuel parameters
- Oxygenates (ASTM D5845), aromatics, benzene (D6277, EN 238), PNA, olefins, saturates
- Biodiesel (D7806, EN 14078)
- Octane boosters, MMT, DCP
- Anilines
- Cetane improver concentration
- Octane number, AKI
- Cetane number, cetane index
- Distillation and vapor pressure
- Flashpoint, viscosity, smoke point and CFPP

Samples

- 🐻 Gasoline, Gasohol
- Diesel
- 🗙 Jet Fuels
- Ruel Adulteration

Specifications

Test Methods

ASTM D5845, D6277, D7777, D7806; EN 238, EN 14078; ISO 15212

Property Prediction Based on

ASTM D86, D323, D445, D5191, D6378, D613, D2699, D2700, D56/3828, D1322, D1840, D2386/7153, D3948, D6379

Pressure Resolution

±0.01 kPa

Temperature Stability

±0.1°C(±0.2°F)

Sample Volume

Less than 25 ml

Scanning Time

80s (Multiple Scans)

	GREASES	SUPPORT PACKAGES		
		CALCHECK Calibration Service	CALPLUS Preventive Maintenance Check & Calibration	
	MINITEST FFK	CALCHECK	CALPLUS	
er ed sis	 Automatic detection of flow pressure Fast 2-stage-Peltier cooling No cryostate needed Fit for field use Highest accuracy Easy handling Portable design 	 1 calibration service Loaner unit available at charge 	 1 preventive maintenance check and calibration; exchange of consumables and sealings included Loaner unit available at charge 	
	Samples Greases			
	Specifications			
	Test Method	Order		
6;	DIN 51805 (Kesternich Method)	Order / activate through G-TICKET system or purchase order Remote Support		
	Temperature Range	Telephone or web-based support	calls (max. 1 hour per call)	
	-50 to +30°C (-58 to +86°F) Tap Water Cooling for below -30°C (-22°F)	Calibration Service (excl. costs for IR calibration liquids) * Maintenance		
	Temperature Resolution		Preventive Maintenance Check,	
	±0.01°C(±0.02°F)	—	including consumables and seals	
	Pressure Range	Loaner unit		
	0 - 200 kPa (0 - 30 psi)	Loaner unit available at charge (€	E 990,- per incident)	
	Dressure Deselution			

* Surcharge for IR Vision Calibration Liquids: Gasoline - € 690 | Diesel - € 690 | PRO - € 1100

DISTILLATION



MINIDIS ADXpert

- D7344 true boiling point
- Delivers D86 results
- Tests B100 biodiesel
- Tests unknown samples
- Detects dry point
- 6 ml sample volume
- Highest safety: no glassware, no open flame
- 15 min. Distillation time
- Automatic filling and cleaning
- Automatic heat adjustment
- Fast and portable for field use

Samples

🔞 Fuel contamination

L Chemicals

🖉 Solvents

Specifications

Test Methods

ASTM D7344; correlation to ASTM D86, D1160, D850, D1078; ISO 3405

Temperature Range

0 to 400°C (32 to 752°F)

Temperature Stability

±0.1°C(±0.2°F)

Sample Volume

6 ml

Measuring Time

15 min. on light samples

FIELD ANALYSIS



Mobile Fuel Lab

Choose Instruments from a Large Selection of On-Board Fuel Analyzers:

- Gasoline, diesel and jet fuel analyzer
- Flashpoint tester
- Vapor pressure tester
- Distillation tester

Equipped with

Shock Proof

Water and Power Supply,

ments, fit for rough roads

Shock proof installation of instru-

Air Condition System

- Lube oil and grease tester
- Many more uses, according to your needs!

SOFTWARE



COCKPIT for Vision Analyzers

- analyzersWorldwide analyzer uplink
- Automatic instrument

• PC software for Vision

- recognition
- Global results download, collaboration and audit
- Visual measurement inspections
- Remote device configuration
- Remote diagnostics
- Remote online support
- Calibration check and history
- Remote user management and training
- Universal database support
- Web-based software distribution
- Easy LIMS configuration
- Network printing
- Multi-format results export (csv, PDF)



IR Database Tool

- PC software to optimize IR Vision analyzer performance
- Analysis measurement quality
- Development, cloning, training and deletion of methods
 - Methods performance improvement
 - Creation and deletion of calibration groups
 - Turing of measurements into calibration measurements
 - Merge and distribution of databases

Minimum System Requirements		
05	0S	
Microsoft® Windows® 7,64 bit, SP1 or higher	Microsoft® Windows 7® or higher	
CPU	CPU	
min. i3, 4th generation, 1 GHz	Intel Core i3 or higher	
RAM	RAM	
2 GB, 64 bit	min.2GBRAM	
Free disk space	Free disk space	
min.1GB	min.1GB	
Display	Interfaces	
Full-HD preferred (1920 x 1080)	USB-communication interface	

FLASHPOINT

MINIFLASH FLP/H/L	NAVIFLASH / MARFLASH	MINIFLASH FP Vision	MINIFLASH FPH Vision
 ASTM D6450 and D7094 No bias to ASTM D93A Best precision Highest safety: no open flame Smallest sample size: 1 or 2 ml Fast peltier cooling Portable, durable design Easy to clean Approved by US DOT, RCRA, NATO, US Navy Worldwide standard for flavors & fragrances NSN 6630-25-145-3256 (FLPH) 	 ASTM D6450 and D7094 US Marine aviation fuel acceptance protocols US Navy-specs protocols Contamination detection F-76 Fuel Dilution of 9250 Oil JP-5 Fuel Dilution of 9250 Oil JP-5, JP-8, Jet A1, Diesel and DF-2 Specs Ideal for shipboard testing NSN 6625-01-472-6783 (NAVIFLASH) NSN 6630-01-534-1774 (MARFLASH) 	 ASTM D6450 (SHT0768) and D7094 Excellent correlation to Pensky Martens Method (ASTM D93), ISO 2719, DIN 51758, IP 34, JIS K 2265, TAG Closed Cup Method (ASTM D56), Abel Closed Cup Method (ISO 13736), IP 170 Maximum safety: continuous closed-cup flash point testing with no open flame Fuel dilution flash point testing Advanced Peltier cooling and ignition protection technologies Intuitive menu navigation on 10" color touchscreen Industry 4.0-ready and scalable Compatible with COCKPIT Software for Vision analyzers 	 ASTM D6450 (SHT0768) and D7094 Excellent correlation to Pensky Martens Method (ASTM D93), ISO 2719, DIN 51758, IP 34, JIS K 2265, TAG Closed Cup Method (ASTM D56), Abel Closed Cup Method (ISO 13736), IP 170 Maximum safety: continuous closed-cup flash point testing with no open flame Flash point testing from 10°C to 400°C (50 to 752°F) Fast sample output: up to 16 samples per hour Industry 4.0-ready and scalable Compatible with COCKPIT Software for Vision analyzers
Petroleum, biofuels	📥 Marine fuels	Petroleum, biofuels	Petroleum, biofuels
La Chemicals	Diesel	La Chemicals	L Chemicals
Flavors and fragrances	Jet fuels	Flavors and fragrances	Lube and used oils
Lube and used oils	Lube and used oils	Paints and varnishes	Paints and varnishes
Paints and varnishes			Solids and bitumen
Solids and bitumen			
Specifications			
Test Methods			
ASTM D6450 (SHT0768), D7094; excellent correlation to ASTM D93, D56, ISO 2719	ASTM D6450 (SHT0768), D7094	ASTM D6450 (SHT0768) & D7094; excellent correlation to ASTM D93 ASTM D3828 A/B, IP 523/IP 524	ASTM D6450 (SHT0768) & D7094; excellent correlation to ASTM D93
Temperature Range			
FLP: 0 to 200°C (32 to 392°F) FLPH: 10 to 400°C (50 to 752°F) FLPL: -25 to 100°C (-13 to 212°F)	MARFLASH: 0 - 200°C (32 - 392°F) NAVIFLASH: 0 - 400°C (32 - 752°F)	0 to 120°C (32 to 248°F) without cooling Down to -25°C (-13°F) with water cooling Down to -45°C (-50°F) with external cooling	10 to 400°C (50 to 752°F)
Temperature Stability			
±0.1°C(±0.2°F)	±0.1°C(±0.2°F)	±0.05°C(0.09°F)	±0.07°C(0.13°F)
Sample Volume			
1 ml (ASTM D6450) 2 ml (ASTM D7094)	1 ml (ASTM D6450) 2 ml (ASTM D7094)	1 ml (ASTM D6450) 2 ml (ASTM D7094)	1 ml (ASTM D6450) 2 ml (ASTM D7094)
Sample Throughput			
up to 12 samples/h	up to 12 samples/h	up to 12 samples/h	up to 12 samples/h

PRODUCT ADVANTAGES





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