

# Ferrite meter Ferrite content tester HFE-100



	Mode	S deviation	Page	
	save	S 0.3	P 0	
Max value	X 5.9	5.8	T 14	Count
Min value	N 5.4		0	APP
Mean	M 5.8		Fe %	Unit
		Value	Power	

Fig.1 display structure

## 1. Application

In the chemical industry the stress-bearing members of containers, pipes, reactor vessels and other plant are usually made of austenitic steel or duplex steel or cladding of austenitic chromium-nickel steel. The residual ferrite content must be within a specific range compatible with the mechanical strength requirements or the item concerned.

The HFE-100 was developed to facilitate accurate ferrite content measurements On welded seams and cladding items.

To measure the content of ferrite in stainless steel

To measure the content of ferrite in alloy steel

To measure the content of ferrite in welding part

## 2. Feature

- Working principle: electromagnetic induction
- LCD display,
- Two display modes (SAVE and FREE): single testing value or continuous testing value.
- Two units display: Fe% (ferrite content) and FN (WRC number, amount of ferrite).
- Statistics display together with measurements, mean value, Max value, Min value, standard deviation value.
- Auto power off function
- Meet standards of GB/T1954-2008、ISO 8249 and ANSI/AWS A4.2.
- Standard two calibration blocks
- 500 data memory

## 3. Technical data

The meter is mainly used for the determination of the ferrite content of welded austenitic steel or Duplex or cladding of austenitic chromium-nickel steel weld.

Range 0.1~80%Fe , ( 0.1~110)WRC-number

Accuracy:  $\pm 2\%$  (range 0.1~30%Fe),  $\pm 3\%$  (range 30~80% Fe)

Resolution: 0.1%Fe, 0.1FN

Operating temperature 5 ~ 40°C

Batteries 9v 6F22

Size: LX WX H 175X100X38mm

Weight: 1kg

## 4. Notice

Notice

Probes are very sensitive element, on the measurement process it should be gently placed on the sample.

The following should be noted:

- The weld to be completely cooled before measurement, the probe can be in contact with the specimen gently.
- If using an external power supply, be sure to remove the battery first.
- Don't disassemble or beat the probe, otherwise it will cause the parameter changes.
- Take off the battery for a long time without using the instrument.