

# AFLEX-3003 Flexible VA Harmonics Tester

## AFLEX -3005 Flexible Power Quality Tester



### FEATURES

#### Power Analysis (3005)

W, KW, H.P.  
 VA ,KVA, VAR,  
 KVAR  
 PF, Phase Angle(  $\Phi$  )  
 Energy (WH, KWH)  
 Dual displays (W+PF,  
 VA+KVAR)  
 Balanced 3  $\Phi$  Power  
 Quality and Sequence

#### Harmonics Analysis

True RMS (V and A)  
 3000 A  
 Non-interrupted Harmonic  
 Analysis ( V and A ) to the 50th  
 Order in % and Magnitude  
 Analysis of % THD-F and  
 C.F.  
 Fast Peak Function (33 $\mu$ s  
 and 39 $\mu$ s)  
 Programmable PT (1 to 250  
 )ratios  
 Auto - Power - Off : 30  
 Minutes



Flexible probe , different from normal clamp meter, can pass through obstacles at will and wind many conducting wires simultaneously, max. diameter 170mm



### SPECIFICATION

AC Watt (50 or 65 Hz, PF 0.5 to 1, CT=1) AFLEX-3005 only

| Range            | Resolution | Accuracy of reading |
|------------------|------------|---------------------|
| 100.0 - 999.9 W  | 0.1 W      | 2% of range         |
| 1.000 - 9.999 KW | 0.001 KW   | 2% of range         |
| 10.00 - 99.99 KW | 0.01 KW    | 2% of range         |
| 100.0 - 999.9 KW | 0.1 KW     | 2% of range         |
| 1000 - 9999 KW   | 1 KW       | 2% of range         |

AC Voltage(50 or 65 Hz, ,Auto Range, True RMS)

| Range         | Resolution | Accuracy of reading    |
|---------------|------------|------------------------|
| 4.0 V - 600 V | 0.1 V      | $\pm 0.5\% \pm 5$ dgts |

Harmonics of AC Current in % and Magnitude(1 to 50th order)

| Range  | Resolution | Accuracy in % | Accuracy of Magnitude            |
|--------|------------|---------------|----------------------------------|
| 1-20th | 0.1%       | $\pm 2\%$     | $\pm 2\%$ of reading $\pm 0.4$ A |

|           |      |                                  |                                 |
|-----------|------|----------------------------------|---------------------------------|
| 21st-50th | 0.1% | $\pm 4\%$ of reading $\pm 2.0\%$ | $\pm 4\%$ of reading $\pm 0.4V$ |
|-----------|------|----------------------------------|---------------------------------|

AC Current(50 or 65 Hz ,Auto Range, True RMS)

| Range           | Resolution | Accuracy of reading |
|-----------------|------------|---------------------|
| 0 - 300.0 A     | 0.1 A      | 1% of range         |
| 300.0 - 999.9 A | 0.1 A      | 1% of range         |
| 1000 - 3000 A   | 1 A        | 1% of range         |

Harmonics of AC Voltage in % and Magnitude(1 to 50th order)

| Range     | Resolution | Accuracy in %                    | Accuracy of Magnitude           |
|-----------|------------|----------------------------------|---------------------------------|
| 1-20th    | 0.1%       | $\pm 2\%$                        | $\pm 2\% \pm 0.5V$              |
| 21st-50th | 0.1%       | $\pm 4\%$ of reading $\pm 2.0\%$ | $\pm 4\%$ of reading $\pm 0.5V$ |

Total Harmonics Distortion(% THD-F,1 to 50th order)

| Range      | Resolution | Accuracy of reading             |
|------------|------------|---------------------------------|
| 0.0-20%    | 0.1%       | $\pm 2\%$                       |
| 20-100%    | 0.1%       | $\pm 6\%$ of reading $\pm 1\%$  |
| 100-999.9% | 0.1%       | $\pm 10\%$ of reading $\pm 1\%$ |