

# Yokogawa VC200 GSM / WCDMA-Mobile Phone Tester

## Specifications

### WCDMA Part

#### Test Functions

- Call Processing
- Frequency Switch
- Maximum Output Power Measurement
- Minimum Output Power Measurement
- Open Loop Power Control
- Inner Loop Power Control
- EVM / Frequency Error
- Reference Sensitivity (BER)
- Maximum Input (BER)
- Sound loop back

#### Transmission Frequency

Band I (2110.0 to 2170.0 MHz)

Band II (1930.0 to 1990.0 MHz)

Band III (1805.0 to 1880.0 MHz)

Band VI (875.0 to 885.0 MHz)

#### Transmission Power

Range: -110.0 to -10.0 dBm (resolution : 0.1dBm)

Absolute Accuracy:  $\pm 1.5\text{dB}$  ( $> -60\text{dBm}$ ),  $\pm 2.0\text{dB}$  ( $< -60\text{dBm}$ )

## **Reception Frequency**

Band I (1920.0 to 1980.0 MHz)

Band II (1850.0 to 1910.0 MHz)

Band III (1710.0 to 1785.0 MHz)

Band VI (830.0 to 840.0 MHz)

## **Reception Power (Tx Power Measurement)**

Maximum input level: +35dBm

Measurement range: -70 to +35dBm

Absolute accuracy:  $\pm 1.5$ dB

## **Frequency Error Measurement**

Range: 0 to  $\pm 10$  kHz

Residual error:  $\pm 0.01$ ppm

## **EVM Measurement**

Residual EVM: approx. 4%

# GSM part

## Test Functions

- Call Processing
- Frequency switch
- Power measurement
- Phase and Frequency error
- Rx Quality
- Rx Level
- Loop back BER / FER
- Burst timing
- Sound loop back

## GSM Band

GSM850, P-GSM, E-GSM, R-GSM, DCS1800, PCS1900

## Transmission Power

Range: -110.0 to -10.0 dBm (resolution: 0.1dBm)  
Absolute accuracy:  $\pm 1.5\text{dB}$  ( $> -60\text{dBm}$ ),  $\pm 2.0\text{dB}$  ( $< -60\text{dBm}$ )

## Reception Power (Tx Power Measurement)

Maximum input level: +40dBm(GSM Burst),  
+35dBm(CW)  
Range: -40 to +35dBm  
Absolute accuracy:  $\pm 1.5\text{dB}$

## Phase Error Measurement

Range: peak 0.5 to 45deg, rms 0.5 to 20deg  
Residual error: approx. 1.4deg (rms)

## Frequency Error Measurement

Range: 0 to  $\pm 10$ kHz  
Residual error:  $\pm 0.02$ ppm

## General Specifications

Display: Color LCD VGA

Interface: 100BASE-TX, USB, RS-232

Language: English, Japanese, Chinese

Operating Conditions Temperature: +5 to +35°C

Humidity: 20 to 80%RH

Rated supply voltage: 100 to 120VAC / 200 to 240VAC

Allowable supply voltage: 48 to 63Hz frequency range

Maximum power: 150VA or less consumption

External dimensions Approx. 283(W) x 176(H) x 303(D) mm

Weight: approx. 6.5kg