

# DKG-090

## GSM MODEM

The DKG-090 GSM module connects to Datakom control units and provides Remote Monitoring, e-mail and SMS facilities through GPRS connection.



### DESCRIPTION

The DKG-090 is a DIN rail mounted GSM Modem designed to be connected to various Datakom modules for internet monitoring and control through the RAINBOW SCADA monitoring system. It also supports e-mail and SMS sending.

The modem uses the 2G GPRS band. Therefore it operates anywhere, even in case of low signal strength.

The module powers-up with externally supplied 12V or 24V DC. It connects to Datakom modules through RS-232 serial port. The baud rate is automatically detected and adjustable through master modules.

The programming of DKG-090 is done through the master module. The modem itself does not require any programming and is directly compatible with all below listed Datakom modules.

D-300 Genset Controller  
D-500-LITE Genset Controller  
D-500 Genset Controller  
D-700 Genset Controller (B&W and TFT versions)  
DKM-411 Network Analyzer  
DFC-0124 Reactive Power Controller (all versions)

The 1800-1900MHz magnetic GSM antenna is supplied together with the modem. It has 2 meter cable and intended to be placed outside of the control panel.

The module requires a GPRS enabled SIM card for full functionality. Voice-only type SIM cards will usually not function properly.

### TECHNICAL SPECIFICATIONS

**Power Supply:** 8.0 to 36.0 V-DC.

**Power consumption:** 2W max.

**Description:**

- Quad-band GSM/GPRS 850/900/1800/1900MHz
- GPRS multi-slot class 12/12
- GPRS mobile station class B
- Compliant to GSM phase 2/2+.

**Class of data transmission:** Class 1, Class 4

**Transmitter output power:** 2W (Class 4), 1W (Class 1)

**Data speed:** max. 85.6 kbps (download & upload)

**SIM card type:** SIM 3V/1.8V, GPRS enabled

**Antenna:** Quad band, magnetic, with 2m cable

**Module certificates:** CE, FCC, ROHS, GCF, REACH

**Operating frequency range:** 850-900-1800-1900 MHz

**RS-232 Port:** 1200-115200baud

**Operating temperature:**

-20°C to 70°C (-4 to +158 °F)

**Storage temperature:**

-40°C to 80°C (-40 to +176°F)

**Maximum humidity:** 95% non-condensing.

**Dimensions:** 35 x 115 x 66mm (WxHxD)

**Weight:** 150g max.

**Installation:** DIN Rail mounted

**Case Material:**

High Temperature, non-flammable ABS/PC

**EU Directives Conformity**

-2006/95/EC (low voltage)

-2004/108/EC (electro-magnetic compatibility)

**Norms of reference:**

EN 61010 (safety requirements)

EN 61326 (EMC requirements)

