

QMS Antenna Coupler System

The Quick Mount System
for any mobile HF rig

No Compromise
Communications



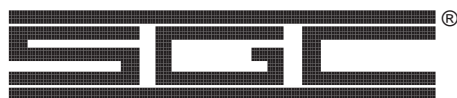
- QMS offers unsurpassed frequency agility needing no user intervention
- QMS includes SGC Smarttuner automatic antenna coupler, extended full-range antenna, and weather resistant QMS package

QMS Descriptions:

QMS-b2 cat. #55-47
includes the SG-230
(200W)
1.8 to 30 MHz
SG-303 9 ft. antenna

QMS-b3 cat. #55-48
includes the SG-235
(500W)
3.0 to 30 MHz
SG-303 9 ft. antenna

QMS-a7 cat. #55-49
includes the SG-231
(100W)
1.0 to 60 MHz
Includes VHF bands
SG-307 7 ft. antenna
(QMS-7 not shown)



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1-800-259-7331

The SGC Building, 13737 S.E. 26th Street, P.O. Box 3526, Bellevue, WA 98009 USA
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The QMS Antenna System



Strap the **QMS** on your favorite family or business vehicle. You'll find it gives any HF-SSB superior frequency agility and exceptional performance.

The SGC Smartuner automatic antenna coupler, the SG-303 extended full-range antenna, and the special exterior QMS mounting package comprise the QMS. Mounting coupler and antenna outside the vehicle reduces engine noise and interference.

It can be quickly installed and easily moved from vehicle to vehicle). No drilling or vehicle modifications are required. Industrial suction cups secure the QMS to the vehicle, without damaging the finish, and high strength straps and buckles complete the job and give structural integrity.

The **SG-303** is a durable and lightweight antenna designed for mobile applications. It's a high efficiency radiator, by virtue of its dual element design. In construction, a single fiberglass whip, helically wound, has a primary resonance at 10 MHz and a secondary resonance at 22 MHz. So at lower frequencies—those under approximately 20 MHz—the SG-303 will vastly outperform a conventional 9-foot whip antenna. The QMS puts the entire antenna system outside the vehicle for high efficiency and low noise.

The **Smartuner** HF antenna coupler is the working brain inside the QMS system. It automatically evaluates and switches 64 input and 32 output capacitance combinations, plus 256 inductance combinations in a π network. The result is over a half-million different ways to ensure a perfect match between the transceiver and the antenna. Smartuner remembers the chosen frequency and tuning values and will automatically reselect these values—in less than 10 ms—each time you transmit on that frequency. It operates with any HF transceiver.

- **microprocessor controlled**
- **non-volatile memory**
- **16" D x 12" W x 3" H**
- **1.8 to 30MHz range**
- **water resistant**

(See QMS-7 brochure for more options.)



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Specifications:

(QMS-7 specifications included on separate brochure.)

QMS (Quick Mount System)

QMS-b2 cat.# 55-47

QMS-b3 cat.# 55-48

Total QMS system weight:

21 lb.

Overall QMS case dimensions

18 x 12 x 5 in.

Housing finish:

Black hard anodized

Maximum strap length: 5.5 ft.

Maximum strap tension:

2000 lb.

Strap width: 1 in.

Maximum allowable vehicle

speed: 75 miles per hour

SMARTUNERS

SG-230 cat. # 54-12

SG-235 cat. # 54-15

SG-230PRO cat. # 54-16

SG-231* cat. # 54-17

HF Frequency range:

SG-230 1.8 to 30 MHz

SG-235 1.6 to 30 MHz

SG-230PRO 1.6 to 30 MHz

SG-231* 1.0 to 60 MHz

Input Impedance range:

25 to 100 Ω

VSWR: Typical—less than 2:1

DC input Voltage: 13.8 VDC

(SG-230 and SG-230PRO only
option: 24 VDC)

Input current: Average .9 amps

SG-235: 1.4 amps

Random set time: Typical—

less than 2 seconds

Recurrent set time: Typical—

less than 10 milliseconds

Non-volatile memory

addresses: SG-230 = 500

SG-230PRO, SG-235 & SG-231 = 170

SG-303 antenna cat. # 55-27

Frequency range:

1.8 to 30 MHz

Maximum Power:

500 watts PEP voice or CW

Length: 9 ft., including
adjustable ratchet mount

Equivalent: 23-foot antenna

Design: helically wound

* use with QMS-7