

LMR SCRAMBLER

TRANSCRIPT
INTERNATIONAL

KW20-4XX

TRANSCRIPT KW20-4XX MODULE

Prevents Eavesdropping by Unwanted Listeners

The KW20-4XX secures confidential communications from scanner listeners, the media, criminals, and terrorists. Choose from four levels of security — from basic (400) to high (460) — according to the sophistication of the adversary and the threat presented if information is compromised.

TK2140 / TK-3140 Compatible

The KW20 features a custom form factor to fit Kenwood TK-2140 / TK-3140 radios. A wire-in installation is required.

Very Low Power Requirements

The KW20-4XX scrambler has a very limited effect on the battery life of the radio.

Outstanding Voice Quality

Transcrypt modules provide clear, natural sounding speech and excellent voice recognition while the radio is operating in the secure mode.

Over-the-Air-Reprogramming (OTAR)

Security codes can be changed remotely while the radio is in the field and operational.

No Manual Switching Required

The automatic receive option allows for automatic detection of both clear and coded communication modes.

Disable Lost or Stolen Radios

The disable radio function can make the radio unable to receive or transmit messages, preventing breaches in communications security.

Normal Voice Band Operation

Does not affect the use of a system's sub-audible signaling options, such as transparent operation through repeaters.



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KW20-4XX SPECIFICATIONS

MODEL NUMBER KW20-4XX

GENERAL SPECIFICATIONS¹

Size (L x W x D)	1.17" x 1.63" x 0.20" 30 mm x 41 mm x 5 mm
Operating Temperature	-22° to +140° F. (-30° to +60° C.)
Receive Coded / Clear	50 to 900 mV P-P
Transmit Coded / Clear	50 to 1400 mV P-P
Supply Voltage	6 to 30 Vdc, regulated to 5 Vdc
Current Drain	8 mA nominal

FEATURES / OPTIONS

Coded / Clear Switch Options	One / two button momentary (default); optional two button momentary / toggle switch
Coded / Clear Indication	Connection available
Scramble Code Select	Connection available for optional switch
Programming Method ²	Over-the-Air-Reprogramming (OTAR)
Signaling Method ²	FlashCall
Emergency ²	Connection available

RADIO SYSTEMS MANAGEMENT²

ANI	4 digit, 0000 to EFFF
Emergency	Retry until acknowledged
Status	Not available
Individual IDs	61,440
Groups	255
Fleets	16
Over-the-Air Features (Modem Required)	TR30-3010 / 3060 / 3061
Over-the-Air-Reprogramming	Yes
Enable / Disable Radio	Yes
Change Encrypt Codes	Yes
Change ANI, Group, Fleet	Yes
Force Coded / Clear	Yes
Export	Some security levels require license

SECURITY SPECIFICATIONS

SCRAMBLER SERIES	KW20-400	KW20-416	KW20-430	KW20-460
Scrambling Method	Low-Level CVP [®] Single Inversion	Low Rate Dynamic CVP I	Medium Rate Dynamic CVP II	High Rate Dynamic CVP III
Rate of Change Per Second (maximum)	N/A	1.03	315	1,170
Scramble Codes	256	> 16 Million	> 33 Million	> 50 Million
Master Codes	> 1 Billion	> 1 Billion	> 1 Billion	> 1 Billion
Scramble Code / Master Code Combinations	N/A	> 28 Quadrillion	> 56 Quadrillion	> 84 Quadrillion
Code Storage Size	16 Codes (Selectable)	16 Codes (Selectable)	16 Codes (Selectable)	16 Codes (Selectable)
Transmit Coded / Clear	Manual Select	Manual Select	Manual Select	Manual Select
Receive Coded / Clear	Manual Select	Automatic	Automatic	Automatic
Interoperability	Transcrypt 400, 410, 416, 430 and 460 Series Scramblers			

UPGRADE OPTIONS

Available Software Upgrades	None	430, 460 Levels	460 Level	None
Modem Compatibility	TR30-3010 / 3060 / 3061	TR30-3010 / 3060 / 3061	TR30-3060 / 3061	TR30-3060 / 3061
Upgrade Method	N/A	OTAR	OTAR	N/A

¹ All specifications are typical and subject to normal manufacturing tolerances. Specifications subject to change without notice.

² ANI, OTAR, Emergency and FlashCall features for the KW20-400 are available when in clear mode only.

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