



# SHP 62000 Technical Specifications

McNab, Incorporated

A80-24A

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<b><u>TRANSMITTER SPECIFICATIONS:</u></b>	Transmitter; P/N 62008
SUBCARRIER CENTER PERIOD (T-out)	2 milliseconds to 100 microseconds (500 Hz to 10 kHz); typical at 625 microseconds (1.6 kHz)
DEVIATION PERIOD WIDTH	100 microseconds (Typical)
LINEARITY	±0.2% with respect to subcarrier period deviation
PERIOD RESPONSE	20% of subcarrier center period
SENSITIVITY	LVDT - Typically 0.5 microseconds per ft-ton (US) at subcarrier center period  Strain Gauge - a multiple function of LVDT sensitivity
CARRIER FREQUENCY	10.7 MHz, screwdriver adjustable over ±1 MHz range
RF POWER OUTPUT	Typically 6 milliwatts into 150 ohm load
POWER REQUIREMENTS	±5 VDC, 10 mA, power regulated, transient protected
OPERATING TEMPERATURE	14 to 149° F
REPEATABILITY	< 0.1% of measurement
STABILITY	0.1% from 60 to 150° F
INPUT IMPS	> 30 kilohms
CALIBRATION	Digital Auto-Reference
FM DEVIATION	150 kHz
RANGE	0 to > 1000 ft-tons (US)
<b>PHYSICAL CHARACTERISTICS</b>	
Dimensions	length 15"; height 3"; width 3"
Weight	4 lbs

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20 North MacQuesten Parkway

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Electrical Connections	Nylon connectors
Construction	RTV protected circuitry
TYPICAL MEASUREMENT RANGE	20 to 1500 microstrain (strain gauge) ±0.05" (LVDT)
LINEARITY	< 0.6% of full range
STABILITY (14 to 149° F)	0.015% drift of temperature range typical transmitter 0.01% drift of temperature range typical receiver
REPEATIBILITY	Better than 0.2% over temperature and voltage
<b><u>RECEIVER:</u></b>	Torque/Thrust Signal Conditioner; P/N 62011  Frequency linear discriminator, using Phase Locked Loop with electronic tracking filter for superior performance; period linear discriminator produces an output voltage which is proportional to the measurement signal period  The subcarrier period of the Torque/Thrust Transmitter and the resultant voltage of the Torque/Thrust Signal Conditioner are linear with respect to the torque and/or thrust sensed by the sensor (LVDT or strain gauge)
DEVIATION PERIOD WIDTH	see transmitter specification
CARRIER FREQUENCY	see transmitter specification
POWER SOURCES	
Transmitter	Patented Rotary Transformer or battery
Receiver	AC line powered

Specifications subject to change without notice  
See also A03-28 Shaft Horsepower Installation Photo

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