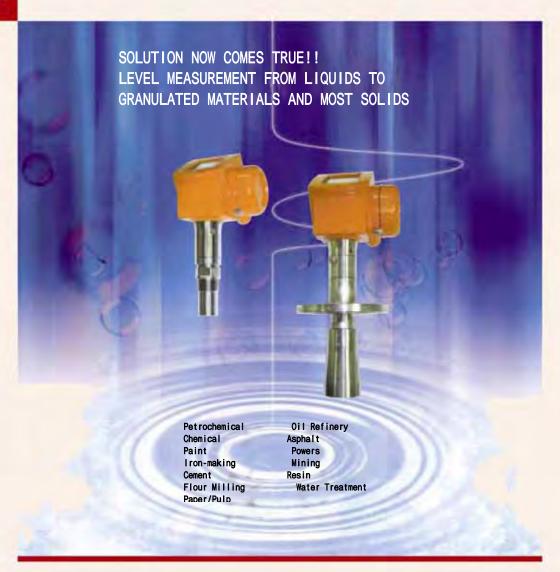
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RADAR TYPE LEVEL METER

(Frequency Modulated Continuous Wave)

REFLEX RADAR FMCW-VG7



EXCELLENCE IN NON-CONTACT TYPE!!

OUTSTANDING SOFTWARE ENSURES THE MOST RELIABLE DETECTION.

Non-contact Radar

FMCW VG7 SERIES OF RADAR FMCW SYSTEM

(Frequency Modulated Coutinuous Wave)

A unique measurement system upgrades the accuracy.

Micro pulses are continuously sent via an antenna toward a product to be measured from which they are reflected back. It Calculates the round trip time from the frequency difference between micro pulses emitted and received at the antenna, which is directly proportional to the distance. The speed of the micro pulses being not affected by temperature and pressure and the changes in dielectric constant or density, this can widely be applied in various fields. FMCW is the best system to achieve the high resolution both accurately and reproducibly.

VG series are featured by the following unique technical-advantages:

ETS(Empty Tank Spectrum)

It memorizes the complex of inner structure when the tank is emptied and detects the level accurately in ignoring tank internals.

TBF(Tank Bottom Following: Detecting reliably low dielectric products)
Compatibility of Measuring Head

FEATURES

It can be used for powders, solids, liquids, slurries and viscous materials.

It may not be affected even if the product is varied.

It is of non-contact type having the range of 40m.

It can be used in a vacuum and under high temperature/pressure.

ATEX EExia(intrinsically safe explosion-proof)

ATEX EExd(flame-proof)

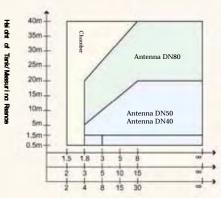
Low Consumption (75mW)



OPERATING PRINCIPLE

Electromagnetic waves are emitted, reflected from the target surface and received at a time-delayed frequency. The difference is calculated from the actual transmit frequency and the receive frequency and is transformed into a lower frequency spectrum. Then the distance is calculated from this spectrum. FMCW is programmed so as to process signals to keep the linearity.







with Sunshade Cover

Storage Tank(No agitation on Liquid Surface)
Process Tank(Agitation and foam on Liquid Surface)
Tank with Agitator

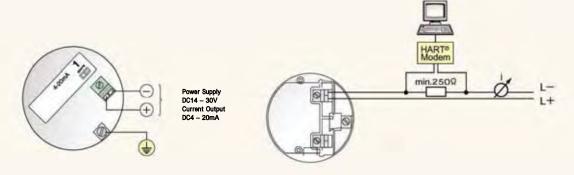
Specific Inductive Capacity of Target

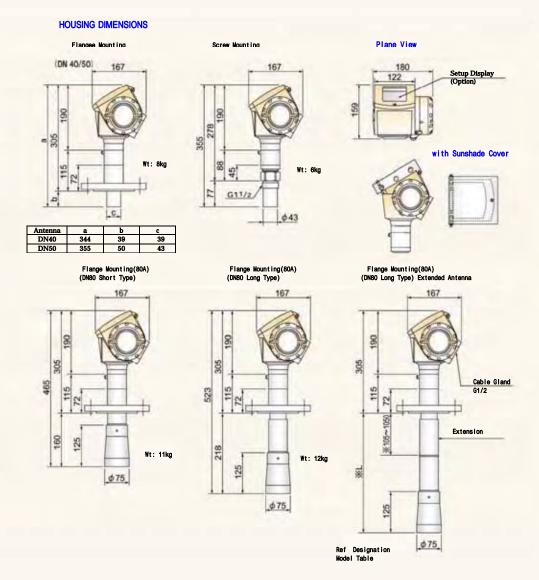
^{*}Select Apparent Specific Inductive Capacity for powders and

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CROSSLINE DRAWING

CONNECTION DRAWING





PROGRAMMING

With a setup display on the head and HART Protocol options, it is possible to do remote programming with PC and to monitor.







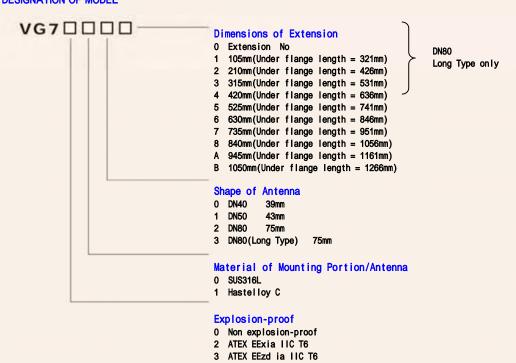


PC Display

STANDARD SPECIFICATIONS

Power Supply	Non Explosion-proof/ EExi	24VDC (DC14 30V)
(Two Wire)	EExd	24VDC (DC20 36V)
Measuring Range	Min Tank Height	0.5m
	Max Measuring Range	40m(dependant on environment)
	Blocking Distance	Extended Length + Antenna Length + 0.1m
Output	Output 1(Max Load Resistance 350)	DC4 20mA HART (Max Load Resistance: 350)
	Error Output	DC3.6mA or DC22mA or hold
	Accuracy	0.05%
	Resolution	±2µA
Accuracy	Accuracy	±3mm(dependant on environment)
	Resolution	1mm
	Beam Angle(DN40)	20 °
	Beam Angle(DN50)	15 °
	Beam Angle(DN80)	10 °
Conditions	Ambient Temperature	-40 - +85 (EExi: -40 - +60)
	Storage Temp. for Insutrment	-40 - +85
	Flange Temperature	-40 - +200 (EEx: +150)
	Withstanding Pressure	-0.1MPa 4MPa
	Housing	IP66 NEMA6 6X

DESIGNATION OF MODEL



Minn HYCONTROL

Line of business

回転式レベルスイッチ ・フロースイッチ 接動式レベルスイッチ●電極式レベルスイッチ ●握子式レベルスイッチ •フロートスイッチ ●差子式レヘルスイッチ●音波式レベルスイッチ●フロート式レベルメータ ●静電容量式レベルスイッチ ●超音波式レベルメータ ◆コンベア周辺機器 ●静電容量式近接センサ ・ダストモニタ 計電容量式レベルメータ ◆ダイヤフラム式レベルスイッチ ◆ジルコニア酸素濃度計 ●レーザー式レベルメータ チルトスイッチ リーク式レベルスイッチ ●電波式レベルメータ ●マイクロウェーブスイッチ 液体濃度・濃度計

※ご使用に即しては取扱説明書を必ずお読み下さい。
※予告なく仕様変更することがありますので予めご了承下さい。

サウンジング式レベルメータ ◆経音波流量計

Nuclear Power Generation to Rice Milling Alicand Manufacture of Land Considers for Founder Sharules and Llouid

KANSAI Automation Co., Ltd.

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代理店 /Agent