


























# APRS Symbols


























## Primary Symbol Table


























	GPS xy	GPS Cnn	Icon	Description
/!	BB	01		Police, Sheriff
/"	BC	02		
/#	BD	03		Digi (green star with white center)
/\$	BE	04		Phone
/%	BF	05		DX Cluster
/&	BG	06		HF Gateway
/'	BH	07		Small Aircraft
/('	BI	08		Mobile Satellite Ground Station
/)	BJ	09		Wheelchair (handicapped)
/*	BK	10		Snowmobile
/+	BL	11		Red Cross
/,	BM	12		Boy Scouts
/-	BN	13		House QTH (VHF)
/.	BO	14		X
//	BP	15		Red Dot
/0	P0	16		0 Circle
/1	P1	17		1 Circle
/2	P2	18		2 Circle
/3	P3	19		3 Circle
/4	P4	20		4 Circle


























## Alternate Symbol Table

























	GPS xyz	GPS Enn	Icon	Description
\!	OB#	01		Emergency
\"	OC	02		
\#	OD#	03		Digi (green star)
\\$	OE#	04		Bank or ATM (green box)
\%	OF#	05		Power Plant
\&	OG#	06		I=IGate R=RX T=1hopTX 2=2hopTX
\'	OH#	07		Crash (& incident sites)
\('	OI#	08		Cloudy
\)	OJ	09		Firenet MEO, MODIS Earth Obs.
\*	OK	10		Snow
\+	OL	11		Church
\,	OM	12		Girl Scouts
\-	ON#	13		House (H=HF) (O = Op Present)
\.	OO	14		Ambiguous (Big Question Mark)
\/	OP	15		Waypoint Destination (Note 1)
\0	A0#	16		Circle (E/I/W= IRLP/EchoLink/WIRES)
\1	A1	17		
\2	A2	18		
\3	A3	19		
\4	A4	20		

























/5	P5	21		5 Circle
/6	P6	22		6 Circle
/7	P7	23		7 Circle
/8	P8	24		8 Circle
/9	P9	25		9 Circle
/:	MR	26		Fire
/;	MS	27		Campground (Portable ops)
/<	MT	28		Motorcycle
/=	MU	29		Railroad Engine
/>	MV	30		Car
/?	MW	31		File Server
/@	MX	32		Hurricane Future Prediction
/A	PA	33		Aid Station
/B	PB	34		BBS or PBBS
/C	PC	35		Canoe
/D	PD	36		
/E	PE	37		Eyeball (events, etc.)
/F	PF	38		Farm Vehicle (Tractor)
/G	PG	39		Grid Square (6-character)
/H	PH	40		Hotel (blue bed icon)
/I	PI	41		TCP/IP on air network station
/J	PJ	42		
/K	PK	43		School
/L	PL	44		PC user
/M	PM	45		MacAPRS

\5	A5	21		
\6	A6	22		
\7	A7	23		
\8	A8#	24		802.11 or other network node
\9	A9	25		Gas Station (blue pump)
\:	NR	26		Hail
\;	NS#	27		Park/Picnic Area
\<	NT#	28		Advisory (one WX flag)
\=	NU#	29		APRStt Touchtone (DTMF Users)
\>	NV#	30		Cars & Vehicles
\?	NW	31		Information Kiosk (blue box with ?)
\@	NX	32		Hurricane/Tropical Storm
\A	AA#	33		Box: DTMF, RFID, XO
\B	AB	34		Blowing Snow
\C	AC	35		Coast Guard
\D	AD#	36		Drizzle
\E	AE	37		Smoke (& other vis codes)
\F	AF	38		Freezing Rain
\G	AG	39		Snow Shower
\H	AH#	40		Haze
\I	AI	41		Rain Shower
\J	AJ	42		Lightning
\K	AK	43		Kenwood HT (w)
\L	AL	44		Lighthouse
\M	AM#	45		MARS (A=Army, N=Navy, F=AF)

/N	PN	46		NTS Station
/O	PO	47		Balloon
/P	PP	48		Police
/Q	PQ	49		TBD
/R	PR	50		Recreational Vehicle
/S	PS	51		Space Shuttle
/T	PT	52		SSTV
/U	PU	53		Bus
/V	PV	54		Amateur TV
/W	PW	55		National Weather Service Site
/X	PX	56		Helicopter
/Y	PY	57		Yacht (sail boat)
/Z	PZ	58		WinAPRS
/[	HS	59		Jogger, Human/person
/\	HT	60		Triangle (DF)
/]	HU	61		Mail/Post Office
/^	HV	62		Large Aircraft
/_	HW	63		Weather Station (blue)
/`	HX	64		Dish Antenna
/a	LA	65		Ambulance
/b	LB	66		Bicycle
/c	LC	67		Incident Command Post
/d	LD	68		Fire Department
/e	LE	69		Horse (equestrian)
/f	LF	70		Fire Truck

\N	AN	46		Navigation Buoy
\O	AO	47		Rocket
\P	AP	48		Parking
\Q	AQ	49		Earthquake
\R	AR#	50		Restaurant
\S	AS	51		Satellite
\T	AT	52		Thunderstorm
\U	AU	53		Sunny
\V	AV	54		VORTAC Nav Aid
\W	AW#	55		NWS Site
\X	AX	56		Pharmacy Rx
\Y	AY#	57		Radios and devices
\Z	AZ	58		
\[	DS#	59		Wall Cloud
\	DT#	60		
\]	DU	61		
\^	DV#	62		Aircraft (Shows Heading)
\_	DW#	63		WX Station with Digi (green)
\`	DX	64		Rain
\a	SA#	65		ARRL, ARES, WinLINK, Dstar, LoRa, etc
\b	SB	66		Blowing Dust/Sand
\c	SC#	67		CD triangle RACES/SATERN/etc
\d	SD	68		DX Spot (from callsign prefix)
\e	SE	69		Sleet
\f	SF	70		Funnel Cloud

/g	LG	71		Glider
/h	LH	72		Hospital
/i	LI	73		IOTA (Islands on the Air)
/j	LJ	74		Jeep
/k	LK	75		Truck
/l	LL	76		Laptop
/m	LM	77		Mic-E Repeater
/n	LN	78		Node (black bulls-eye)
/o	LO	79		Emergency Operations Center
/p	LP	80		Rover (puppy dog)
/q	LQ	81		Grid Square shown above 128m
/r	LR	82		Repeater
/s	LS	83		Ship (power boat)
/t	LT	84		Truck Stop
/u	LU	85		Truck (18-wheeler)
/v	LV	86		Van
/w	LW	87		Water Station
/x	LX	88		X-APRS (Unix)
/y	LY	89		Yagi at QTH
/z	LZ	90		TBD
/f	J1	91		
/l	J2	92		
/}	J3	93		
/~	J4	94		

\g	SG	71		Gale Flags
\h	SH#	72		Store or Hamfest
\i	SI#	73		BOX or points of Interest
\j	SJ	74		Work Zone (steam shovel)
\k	SK#	75		Special Vehicle SUV, ATV, 4x4
\l	SL	76		Area Symbols (box, circle, etc)
\m	SM	77		Value Sign (3 digit display)
\n	SN#	78		Triangle
\o	SO	79		Small Circle
\p	SP	80		Partly Cloudy
\q	SQ	81		
\r	SR	82		Restrooms
\s	SS#	83		Ship/Boat (top view)
\t	ST	84		Tornado
\u	SU#	85		Truck
\v	SV#	86		Van
\w	SW#	87		Flooding (Avalanches/Slides)
\x	SX	88		Wreck or Obstruction
\y	SY	89		Skywarn
\z	SZ#	90		Overlayed Shelter
\f	Q1	91		Fog
\l	Q2	92		
\}	Q3	93		
\~	Q4	94		

Notes:

# under GPSxyz column Indicates an optional overlay character, A-Z 0-9.

Sample icons are from <https://github.com/hessu/aprs-symbols> . A similar set can be found at [http://wa8lmf.net/aprs/APRS\\_symbols.htm](http://wa8lmf.net/aprs/APRS_symbols.htm). Applications may use these or design their own equivalents.

# Encoding in APRS Packet

APRS has two groups of 94 symbols represented by two characters.

Symbol Table:

- / for Primary
- \ for Alternate
- 0-9 A-Z for Alternate with overlay
- \$ was proposed for a third table but never implemented

Symbol Code: Printable ASCII characters ! through ~

Position Report and Object Report packets include these two characters.

See [Understanding APRS Packets](#) for more information.

## Obsolete Alternative

The very early trackers used microcontrollers that were severely resource limited. They were not powerful enough to parse the GPS NMEA sentence and generate a Position Report. As a short-lived hack, they simply transmitted the character string from the GPS receiver. The symbol was encoded in the AX.25 Destination field with "GPS" and 2 or 3 more characters as found in the tables above. This has been obsolete since the previous Century and is provided only for historical reference.