SPEED CONTROL MODULE (SCM)

Speed control module is used together with SI-3 radar to control 2-3 digit 7-segment speed display, gather speed data or both. System is equipped with back light LCD-screen and four control buttons. Easy to read menu structure allows straightforward programming of all functions needed in most speed display and data collection applications.
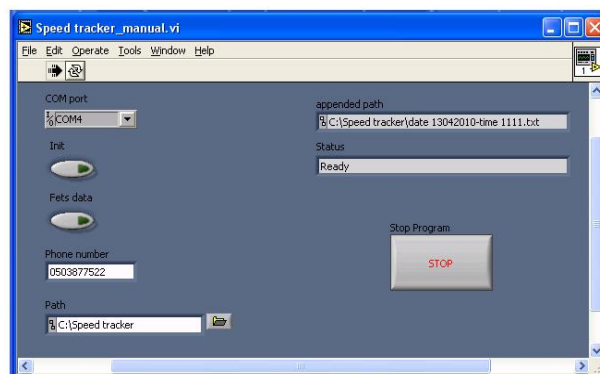
Control system will relay digit information up to three digits where first digit is limited to number "1". Alternatively system can control two digits and e.g." SLOW DOWN" text which are triggered when preset speed limit is exceeded. Since radar is programmable as well, there are numerous combinations to meet most demanding requirements.

Automatic brightness control adjusts digit brightness to suite various lightning conditions. This function is extremely useful in battery powered systems, by saving power extending operation time significantly.

System will flash digits few times, when preset speed limit is exceeded. To drop out extreme speed violations, display will show nothing or middle lines in both segments when preset cut off limit is exceeded.

Integrated data collection function allows to gather up to 100 000 samples with date and time information. Optional GSM/GPRS –data function allows wireless data transfer over GSM-data as well. Our intelligent data filter function allows gathering speed, date and time information from both directions, while speed display shows speeds only to approaching drivers.

Functions can be added later and system can be updated with firmware updates. This extends lifetime of end product and brings added value for end user as well. This is extremely useful sales argument when SCS is used as a part of end product. This brings also repetitive sales when software updates can be sold years to come. System can be updated to relay gathered data over internet servers etc. later on.

PC-software for data collection and handling in GSM/GPRS-data option

SCM TECHNICAL SPESIFICATIONS

SI-3 RADAR:	
Frequency:	K-band 24.150 GHz +/- 50 MHz
Beam width:	12° +/-1°
Range:	920 m
Speed range:	1 - 240 km/h
Accuracy	±1,25 %
Cosine angle error correction:	Automatic cosine angle correction up to 45 degrees vertical & horizontal
Programmable functions	- KPH or MPH
	- Sensitivity / range
	- Vertical & horizontal angle
	- Directionality (approaching, resending or both directions)
	- Target lock & hold times
	- Minimum speed
	- Maximum speed
	- Closest or fastest target in range

DATA COLLECTION & CONTROL MODULE FOR 2 DIGIT 7-SEGMENT SPEED DISPLAY	
Functions:	Speed display controls
	- Two digits and trigger for e.g. external "SLOW DOWN" text.
	- Three digits where first digit is limited to "1"
	- Sensor for automatic brightness adjustment
Data collection:	Up to 100 000 samples with dates and times.
Accuracy:	Speed is stored in full kilometres or miles
Data transfer	RS232 / USB -connector
Directionality	Approaching, resending or both directions
	System will relay only approaching targets to speed digits
Options:	Automated data transfer over GSM-data connection (optional)
	Automated date and time update over GSM network.(optional)

POWER	
Nominal power:	12V
Power consumption (minimum)	224 mA
Power consumption (maximum):	232 mA

CONTROL MODULE FUNCTIONS	
LCD-display with back light and 4 control buttons	Possibility to set following functions using LCD-menu & control buttons:
	- Radar sensitivity
	- Vertical & horizontal angle
	- Speed correction in KPH or MPH
	- Speed limit (when exceeded module will flash speed digits few times)
	- Maximum speed show in display
	- Minimum speed show in display
	- Speed information shown in seconds
	- Sensitivity meter for automatic brightness adjustment (0-7)
	- Date and time
	- GSM number for data transfer (GSM/GPRS -data transfer option)
	- Number of samples collected before data transfer (GSM/GPRS -data transfer option)