

NMEA 2000

Data	Hex	Dec	VMH 35
RPM	1F200	127488	✓
Trim Position	1F200	127488	✓
Gear Position	1F205	127493	✓
Water Speed	1F503	128259	✓
GPS Speed	1F802	129026	✓
Voltage	1F201	127489	✓
Fuel Flow	1F201	127489	✓
Tank Size	1F211	127505	✓
Fuel Level	1F211	127505	✓
Engine Hours	1F201	127489	✓
GPS Position	1F805	129029	✓
NMEA 2000 Engine Alarms	1F201	127489	✓



ANALOG

RPM	Frequency	✓	
Trim	0-5 V	✗	--> product update ongoing
Fuel Level	Resistive	✓	
Alarms	Switches	✗	--> dedicated alarm gauge required

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RPM	1F200	127488	✓
Trim Position	1F200	127488	✓
Gear Position	1F205	127493	✓
Water Speed	1F503	128259	✓
GPS Speed	1F802	129026	✓
Voltage	1F201	127489	✓
Fuel Flow	1F201	127489	✓
Tank Size	1F211	127505	✓
Fuel Level	1F211	127505	✓
Engine Hours	1F201	127489	✓
GPS Position	1F805	129029	✓
ECO Mode			✓
NMEA 2000 Engine Alarms	1F201	127489	✓



ANALOG

RPM	Frequency	✓	
Trim	0-5 V	✗	--> product update ongoing
Fuel Level	Resistive	✓	
Alarms		✓	--> lamps on electronic throttle

NMEA 2000

Data	Hex	Dec	VMH 35
RPM	1F200	127488	✓
Trim Position	1F200	127488	✓
Gear Position	1F205	127493	✓
Alternator Potential	1F201	127489	✓
Fuel Flow	1F201	127489	✓
Engine Hours	1F201	127489	✓
Alarm	1F201	127489	✓
Boost Pressure	1F200	127488	✓
Coolant Temperature	1F201	127489	✓
Rated Engine Speed	1F20A	127498	✗
Speed Over Ground (SOG)	1F802	129026	✓
Course Over Ground (COG)	1F802	129026	✓
Water Speed	1F503	128259	✓
Fuel Level	1F211	127505	✓
NMEA 2000 Engine Alarms	1F201	127489	
Second Station system status	FF04	65284	✗
Engine Diagnosis Status 1	1FF00	130816	✗
Engine Diagnosis Status 2	1FF00	130816	✗
Engine Diagnosis Status 3	1FF00	130816	✗
Engine Diagnosis Status 4	1FF00	130816	✗



✗ --> Tohatsu proprietary (generic alarm is shown)
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NMEA 2000 (6Y8)

Data	Hex	Dec	VMH 35
RPM	1F200	127488	✓
Trim Position	1F200	127488	✓
Gear Position	1F205	127493	✓
Fuel Flow	1F201	127489	✓
Engine Hours	1F201	127489	✓
Coolant Temperature	1F201	127489	✓
Speed Over Ground (SOG)	1F802	129026	✓
Course Over Ground (COG)	1F802	129026	✓
Water Speed	1F503	128259	✓
Fuel Level	1F211	127505	✓
Coolant Press			✓
Engine Oil Level (2-stroke)			✗
Engine Oil Press (4-stroke)			✓
Voltage			✓
Clock			✓
Trip Distance			✓
Fuel Economy			✓
Fuel Consumption			✓
Sea Water Temp		1FD0C	✓
Depth		1F50B	✓
Service intervals			✗
Troll Mode			✗
NMEA 2000 Engine Alarms	1F201	127489	✓
Proprietary Alarms			✗



J1939 (6Y9)

currently not supported, new product variant in development (VMH 35 J1939)

NMEA 2000

Data	Hex	Dec	VMH 35
RPM	1F200	127488	✓
Trim Position	1F200	127488	✓
Fuel Flow	1F201	127489	✓
Engine Hours	1F201	127489	✓
Coolant Temperature	1F201	127489	✓
Speed Over Ground (SOG)	1F802	129026	✓
Water Speed	1F503	128259	✓
Fuel Level	1F211	127505	✓
Coolant Press			✓
Engine Oil Press			✓
Voltage			✓
Clock			✓
Trip Distance			✓
Fuel Economy			✓
Fuel Consumption			✓
Depth		1F50B	✓
Atmospheric Pressure			✗
Fuel Press			✗
Boost Pressure	1F200	127488	✓
NMEA 2000 Engine Alarms	1F201	127489	✓
Proprietary Alarms			✗

--> generic alarm is shown, no details

