REMOS

**TYPE CERTIFICATE DATASHEET REMOS GX**
**certified as US-LSA**

==========

## 0. List of Content



==========

## I. General

Make ..... : REMOS
Model ..... : GX

Manufacturer until 10/2014 ..... : REMOS Aircraft GmbH Flugzeugbau
Franzfelde 31
17309 Pasewalk
G E R M A N Y

Manufacturer from 11/2014 on ..... : REMOS AG
Franzfelde 31
17309 Pasewalk
G E R M A N Y

TC Holder :..... : REMOS AG
Franzfelde 31
17309 Pasewalk
G E R M A N Y

Certification Standard ..... : ASTM F2245

==========

## II. Description and Limitations

1. Basic Specification

Construction Method ..... : Composite
Wing ..... : High Wing Airplane, braced
Type of Empennage ..... : Rear Cruziform
Landing Gear ..... : Nose Landing Gear, non-retractable
Powerplant Arrangement ..... : Tractor
Occupants ..... : 2
Crew ..... : 1

REMOS

**TYPE CERTIFICATE DATASHEET REMOS GX**
**certified as US-LSA**

## 2. Dimensions

| | | |
|---|---|---|
| Wingspan | : | 9.32 m (30 ft 7 in) |
| Wing Area | : | 10.97 m² (118 sqft) |
| Wing Aspect Ratio | : | 7.92 |
| Length | : | 6.47 m (21 ft 4 in) |
| Height | : | 2.28 m ( 7 ft 6 in) |
| Wheel Track | : | 1.38 m ( 4 ft 6 in) |
| Wheel Base | : | 2.10 m ( 6 ft 11 in) |

## 3. Control Throws

| | | | |
|---|---|---|---|
| Aileron | Neutral Position | : | in shape of airfoil |
| | upward deflection | : | 21 deg +/- 1 deg |
| | downward deflection | : | 12 deg +/- 1 deg |
| Rudder | Neutral Position | : | in shape of airfoil |
| | left deflection | : | 28 deg +/- 2 deg |
| | right deflection | : | 28 deg +/- 2 deg |
| Elevator | Neutral Position | : | in shape of airfoil |
| | upward deflection | : | 29 deg +/- 1 deg |
| | downward deflection | : | 19 deg +/- 1 deg |
| Elevator Tab | Neutral Position | : | in shape of airfoil |
| | upward deflection | : | 15 deg +/- 1 deg |
| | downward deflection | : | 25 deg +/- 1 deg |
| Flaps | Neutral Position | : | in shape of airfoil |
| | upward deflection | : | 0 deg |
| | downward deflection | : | 40 deg +0 deg / - 1 deg |

## 4. Reference Speeds

Aircraft up to SN428:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| never exceed speed | : | 249 | km/h | = | 155 | mph | = 134 kts |
| normal operate speed | : | 198 | km/h | = | 123 | mph | = 107 kts |
| manoeuvring speed | : | 174 | km/h | = | 108 | mph | = 94 kts |
| maximum flap speed | : | 130 | km/h | = | 81 | mph | = 70 kts |
| stall speed clean | : | 81 | km/h | = | 51 | mph | = 44 kts |
| stall speed flaps down | : | 70 | km/h | = | 44 | mph | = 38 kts |

Aircraft from SN429 or with NOT-014 applied:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| never exceed speed | : | 249 | km/h | = | 155 | mph | = 134 kts |
| normal operate speed | : | 198 | km/h | = | 123 | mph | = 107 kts |
| manoeuvring speed | : | 163 | km/h | = | 101 | mph | = 88 kts |
| maximum flap speed | : | 145 | km/h | = | 90 | mph | = 78 kts |
| stall speed clean | : | 81 | km/h | = | 51 | mph | = 44 kts |
| stall speed flaps down | : | 78 | km/h | = | 48 | mph | = 42 kts |

## 5. Mass

Maximum Take-Off Weight : 600 kg = 1,320 lb

REMOS AG
Franzfelde 31
D-17309 Pasewalk
G E R M A N Y

Tel.: +49 (0)3973/225519-0
Fax: +49 (0)3973/225519-99
E-Mail: info@remos.com
Internet: www.remos.com

6. Center of Gravity

| | | |
|---|---|---|
| Reference ..... | : | Wing Leading Edge at Fuselage |
| Aircraft Attitude ..... | : | Wing Chord at Rectangular Portion in Level |
| front C.G. ..... | : | 245 mm = 9.6 in aft of Reference |
| rear C.G. ..... | : | 415 mm = 16.3 in aft of Reference |

REMOS AG
Franzfelde 31
D-17309 Pasewalk
G E R M A N Y

Tel.: +49 (0)3973/225519-0
Fax: +49 (0)3973/225519-99
E-Mail: info@remos.com
Internet: www.remos.com

REMOS

**TYPE CERTIFICATE DATASHEET REMOS GX**
**certified as US-LSA**

==========

## III. Engine, Propeller and Fuel System

### 1. Engine

| | |
|---|---|
| Manufacturer | ROTAX |
| Model | 912 UL-S |
| Type | 4-cylinder 4-stroke, carburetted, opposed |
| Gearbox Type | Straight Geared Spur |
| Gearbox Ratio | 1 : 2,43 |
| Cooling | Water Cooled Cylinder Heads<br>Air Cooled Cylinders<br>Oil Cooling with Shutter or thermostat |
| Max. Power | 73.5 kW @ 5,800 min-1 |
| Max. Cont. Power | 69.0 kW @ 5,500 min-1 |
| engine idle speed | 1.400 – 1.600 min-1 |
| engine max. speed | 5.800 min-1 |
| engine max. cont. speed | 5.500 min-1 |
| Min. Cylinder Head Temperature | not defined |
| Max. Cylinder Head Temperature | 135°C (275°F)<br>120°C (248°F) in case SB-011 complied with |
| Min. Oil Temperature | 50°C (120°F) |
| Max. Oil Temperature | 130°C (266°F) |
| Min. Oil Pressure | 1.5bar (22psi) |
| Max. Oil Pressure | 5.0bar (73psi) |
| Min. Oil Pressure (below 3500RPM) | 0.8bar (12psi) |
| Max. Oil Pressure (cold start) | 7.0bar (102psi) |
| Silencer | REMOS |
| Airbox | REMOS |
| Carburettor Heating System | REMOS |
| Heat Exchanger for Cabin Heating | REMOS |
| Electrical Regulator | ROTAX or SCHICKE GR-6 |
| Engine Oil | Engine Oil as per ROTAX Operating Manual and SI-912-016: min. grade API SG with gearbox additives, chose viscosity according to climate conditions, preferable 10W-40, 5W-40 or 5W-50, recommended oil brands listed in ROTAX SI-912-016 (actual revision).<br>min. 2 ltr (2.1 quarts)<br>max. 3 ltr (3.1 quarts) |
| Engine Coolant | Conventional cooling fluid with about 50% water content as per ROTAX Operating Manual and SI-912-016. Recommended types of coolant brands listed in ROTAX SI-912-016 (actual revision).<br>min. 2.0 ltr (2.2 quarts)<br>max. 2.4 ltr (2.5 quarts) |

REMOS AG
Franzfelde 31
D-17309 Pasewalk
G E R M A N Y

Tel.: +49 (0)3973/225519-0
Fax: +49 (0)3973/225519-99
E-Mail: info@remos.com
Internet: www.remos.com

REMOS

**TYPE CERTIFICATE DATASHEET REMOS GX**
**certified as US-LSA**

## 2. Approved Propellers

| | | |
|---|---|---|
| Manufacturer | : | F.lli Tonini |
| Model | : | GT-2 |
| Number and Type of Blades | : | 2, Wood, Fixed Pitch |
| Max. Diameter | : | 1.69 m = 66 in |
| Pitch | : | 21.5 deg @ 19.7 in |
| Full Power Engine Speed on Ground | : | 5,350 min-1 |
| Noise Level | : | 57.7 dB(A) acc. to LS-UL 96 |

| | | |
|---|---|---|
| Manufacturer | : | Woodcomp |
| Model | : | SR38+1 |
| Number and Type of Blades | : | 2, Wood, Fixed Pitch |
| Max. Diameter | : | 1.69 m = 66 in |
| Pitch | : | 21,5 deg @ 19.7 in |
| Full Power Engine Speed on Ground | : | 5,350 min-1 |
| Noise Level | : | 57.7 dB(A) acc. to LS-UL 96 |

| | | |
|---|---|---|
| Manufacturer | : | Sensenich |
| Model | : | 2A0-R5R70-EN |
| Number and Type of Blades | : | 2, Composite, Ground Adjustable |
| Max. Diameter | : | 1.77 m = 70 in |
| Pitch | : | 23.0 deg @ 26.0 in |
| Full Power Engine Speed on Ground | : | 4,900 min-1 |
| Noise Level | : | 59.9 dB(A) acc. to LVL 2004 |

| | | |
|---|---|---|
| Manufacturer | : | Neuform |
| Model | : | CR3-65-47-101,6 |
| Number and Type of Blades | : | 3, Composite, Ground Adjustable |
| Max. Diameter | : | 1.65 m = 65 in |
| Pitch | : | 23.0 deg @ R = 0.62m (24.4in) |
| Full Power Engine Speed on Ground | : | 4,900 min-1 |
| Noise Level | : | 59.4 dB(A) acc. to LVL 2004 |

## 3. Fuelsystem and Approved Types of Fuel

| | | |
|---|---|---|
| total Fuel Capacity | : | 84ltr (22 USgal) |
| usable Fuel Quantity | : | 80ltr (21 USgal) |
| Min. Fuel Pressure | : | 0.15 bar = 2.1 psi |
| Max. Fuel Pressure | : | 0.40 bar = 5.7 psi |
| Approved Types of Fuel | : | EN228 Super / Super Plus, min. RON95<br>Premium / Premium Euro-95<br>Super / Super Euro-98<br>R51105-97 / R51866-2002<br>CAN/CGSB-3.5 Quality 3<br>ASTM D4814, min. AKI91<br>ASTM D910 AVGAS100LL<br>ASTM D7547 AVGAS UL91<br>HJELMCO AVGAS 91/96UL<br>HJELMCO AVGAS 91/98UL<br><br>up to 10% ethanol is permitted as per<br>REMOS Notification NOT-001, see www.remos.com<br>see ROTAX SI-912-016 (actual revision) |

REMOS AG
Franzfelde 31
D-17309 Pasewalk
G E R M A N Y

Tel.: +49 (0)3973/225519-0
Fax: +49 (0)3973/225519-99
E-Mail: info@remos.com
Internet: www.remos.com

==========

## IV. Standard and Optional Equipment

### 1. Standard Equipment

| | | |
|---|---|---|
| Airspeed Indicator ..... | : | airspeed indicator, scale to at least 300km/h = 160kts = 180mph. Markings acc. to Reference Speeds. Manufacturer WINTER or equivalent |
| Altimeter ..... | : | three pointer altimeter calibrated to min. 20,000ft. Altitude indication in feet. Barometric pressure in inHg or mbar. Manufacturer WINTER, FALCON GAUGE or equivalent. |
| Compass with Compass Card ..... | : | Until S/N 298 use panel mounted compass. For S/N 298 ff use or top of panel mounted compass with internal lighting. Manufacturer AIRPATH or equivalent |
| Safety Belts ..... | : | Manufactured by REMOS, or 8-2520M0M0N22-88 by BAe Systems (LH) 8-2620M0M0N22-88 by BAe Systems (RH) |
| 12V Battery ..... | : | Until S/N 377 for A/C with electrical equipment acc. to min. equipment list for Day-VFR operations install min. 13Ah. For aircraft until S/N 377 with electrical equipment exceeding Day-VFR min. equipment list or equipped acc. to min. equipment list for Night-VFR operations install min. 16Ah. For S/N 378 ff use min. 7Ah for any equipment. Use Battery type HAWKER GENESIS or equivalent. Installation of LiFePO4 battery is approved. |

### 2. Engine Indication Instruments

ROTAX FLYDAT, or DYNON D120, or DYNON D180, or DYNON EMS D-10, or DYNON SkyView SV-D600/D700/HDX800 with SV-EMS-220 module and/or analogue instruments indicating engine Speed, cylinder head temperature, oil temperature and oil pressure (Manufacturer ROTAX, VDO or equivalent). Fuel quantity may be displayed in the instruments mentioned before, but the main source of information for fuel quantity is the sight tube on the fuel tank behind the copilot seat.

### 3. Approved Flight Instrumentation

| | | |
|---|---|---|
| DYNON Equipment ..... | : | DYNON EFIS D100<br>DYNON EMS D120<br>DYNON FlightDEK D180<br>DYNON EMS D-10<br>DYNON HS-34<br>DYNON EDC D-10A<br>DYNON SV-D600/D700/HDX800 with SV-ADAHRS-200 and opt. SV-BAT-320 (one per screen installed) |

| | |
|---|---|
| Flymap/Brightflight Equipment ... : | Flymap/Brightflight LD |
| | Flymap/Brightflight AHRS |
| | Flymap/Brightflight EMS |
| Equipment w/o defined Manufacturer: | electric artificial horizon |
| | electric turn coordinator |
| | electric directional gyro |
| | CDI 106A w/ GS |

## 4. Approved NAV/COMM/XPDR/Audio Equipment

| | |
|---|---|
| GARMIN Equipment ..... : | GARMIN SL30 |
| | GARMIN SL40 |
| | GARMIN GTR200 |
| | GARMIN GTR225 or GTR225/A |
| | GARMIN GNC255 or GNC255/A |
| | GARMIN GMA-240/245 |
| | GARMIN GMA-340 |
| | GARMIN GTX 327/328/330/335 |
| | GARMIN GPS 295/296 |
| | GARMIN GPS 395/396 |
| | GARMIN GPS 495/496 |
| | GARMIN GPS 695/696 |
| | GARMIN aera500/510 |
| | GARMIN aera550/560 |
| | GARMIN aera660 |
| | GARMIN aera795/796 |
| Flymap/Brightflight Equipment ... : | Flymap/Brightflight L |
| AVMAP Equipment ..... : | GPS EXP IV |
| BECKER Avionics ..... : | BECKER AR4201 |
| | BECKER AR6201 |
| | BECKER BXP6401 |
| DYNON Avionics ..... : | DYNON SV-GPS-250 |
| | DYNON SV-GPS-2020 |
| | DYNON SV-XPNDR-261/262 |
| | DYNON SV-COM-X83/H |
| | DYNON SV-INTERCOM-2S |
| ps-engineering ..... : | PM1000/1000II |
| | PM 3000 |
| | PMA 7000B |
| | PMA 8000BT |
| | PAR200A |

## 5. Approved Autopilots

| | |
|---|---|
| DYNON Equipment ..... : | DYNON AP-74 |
| | DYNON SV-32 |
| TruTRAK Equipment ..... : | TruTrak Digiflight II VS |
| | TruTrak Servos |
| Flymap/Brightflight Equipment ... : | Flymap/Brightflight Autopilot Servos |

6. Emergency Location Transmitter

| | | |
|---|---|---|
| 121 MHz | : | ACK E-01 |
| 406 MHz | : | ACK E-04<br>ARTEX ME406<br>KANNAD 406-AF Compact<br>KANNAD 406-AF INTEGRA<br>remote switch for ELT activation required in the panel in direct access of the pilot |

7. Landing Gear

| | | |
|---|---|---|
| Nose Landing Gear GFRP Version... | : | Tire 4.00-4, 4 ply or higher.<br>Fairing non-detachable |
| Main Landing Gear GFRP Version... | : | Tire 4.00-6, 4 ply or higher<br>Fairing non-detachable |
| Nose Landing Gear Steel Version . | : | Tire 4.00-4, 4 ply or higher<br>to be used with or without fairings |
| Main Landing Gear Steel Version . | : | Tire 4.00-6, 4 ply or higher<br>To be used with or without wheel fairings. Leg fairing or interference fairings between leg and wheel may be taken off partly or completely. If used with interference fairings, but without wheel fairings, fixation bracket for interference fairing is required. Fuselage belly fairing may be taken off |
| Main Landing Gear Steel Version . | : | Tire 15 x 6.00-6, 4 ply or higher<br>To be used without wheel fairings only. Leg fairing or interference fairings between leg and wheel may be taken off partly or completely. If used with interference fairings, but without wheel fairings, fixation bracket for interference fairing is required. Fuselage belly fairing may be taken off. |

8. Approved Equipment

| | | |
|---|---|---|
| Landing Light | : | Hella H7, Hella Daylight, AeroLEDs 1600 |
| Position Lights | : | REMOS D-VFR, REMOS N-VFR, AeroLEDS NS90/NS180 |
| Anti Collision Light | : | Thiessen ACL, Thiessen ACL-3, Wheelen |
| Taillight | : | AeroLEDs SUNTAIL, Kunzleman, Wheelen, Thiessen |
| Instrument Lighting | : | REMOS |
| Recovery System | : | Magnum 601, installed in accordance with Parachute Installation Manual G3-8 RE RS 080<br>BRS-6-1350, installed in accordance with Parachute Installation Manual G3-8 RE RS 220<br>BRS-7-LSA, installed in accordance with Parachute Installation Manual G3-8 RE RS 320 |
| Engine Preheating System | : | Tanis Rotax Preheat System |

misc. Equipment ..... : Electronics International Fuel Flow F-PL5
TOST tow release clutch type E85
REMOS Mounting Frame for Tow Release Clutch
Yellow Colored Release Handle
Rear View Mirror on Main Spar Carrythrough
IN-Pro OAT and Time Module
Luggage Pocket Net
SKYDRIVE analogue Fuel Pressure Gauge
B&C external Alternator attached to Gearbox
AIRGizmo GPS adaptors (angled and straight)
regulator by SCHICKE or DUCATI
overvoltage protection by SCHICKE

REMOS AG
Franzfelde 31
D-17309 Pasewalk
G E R M A N Y

Tel.: +49 (0)3973/225519-0
Fax: +49 (0)3973/225519-99
E-Mail: info@remos.com
Internet: www.remos.com

==========

## V. Approved Practices for Maintenance, Modifications and Repairs

### 1. Approved Practices for Repairs

REMOS has released a Maintenance Manual, describing standard maintenance and repair events. REMOS hereby approves the acceptable methods, techniques and practices for inspection, repair and alterations set forth in FAA AC 43.13 without further need for a Letter of Approval. Nevertheless, such an event must be signed off in the aircraft's logbook by an LSA repairman, an A&P mechanic or a Part 145 MRO Organization.

### 2. Modifications / Change of Equipment

Equipment listed in this document may be changed without further need for a Letter of Approval. This document is valid as a general Letter of Approval. Nevertheless, such an event must be signed off in the aircraft's logbook by an LSA repairman, an A&P mechanic or a Part 145 MRO Organization. Any equipment not listed in this document may not be installed on the aircraft without REMOS to issue a Letter of Approval. The Weight-and-Balance sheet as well as the aircraft's equipment list must always be kept up to date.

Equipment must be installed in accordance with the installation instructions of the manufacturer of the equipment to be installed and the relevant drawings and instructions of REMOS AG. This documentation must be kept indefinitely in the records of the individual aircraft as permanent attachment to the aircraft's maintenance manual.

### 3. Maintenance

REMOS provides a Service and Maintenance Checklist that comes with every aircraft in the maintenance manual. As technical knowledge and equipment rises quicker than the maintenance manual can be updated an up to date version of the maintenance checklist is provided on the website www.remos.com. This checklist has shown to be very useful and standardizes the maintenance for the REMOS aircraft. It is recommended to use this maintenance checklist only.

### 4. Annual Condition Inspection

REMOS provides an inspection list for the annual condition inspection. This checklist has shown to be very useful and standardizes the inspection for the REMOS aircraft. An up to date version of the checklist for the annual condition inspection is provided on the website www.remos.com. It is recommended to use this checklist only.

### 5. Authorized Personnel

Preventative Maintenance ..... : Owner and/or Operator with Sport Pilot Certificate or higher, or LSA Repairman, or A&P Mechanic, or Part 145 Repair Station with appropriate ratings

Line Maintenance ..... : Owner and/or Operator with Sport Pilot Certificate or higher, or LSA Repairman, or A&P Mechanic, or Part 145 Repair Station with appropriate ratings

| | | |
|---|---|---|
| Heavy Maintenance ..... | : | LSA Repairman, or A&P Mechanic, or Part 145 Repair Station with appropriate ratings |
| Repairs ..... | : | LSA Repairman, or A&P Mechanic, or Part 145 Repair Station with appropriate ratings |
| Modifications ..... | : | Owner and/or Operator with Sport Pilot Certificate or higher, or LSA Repairman, or A&P Mechanic, or Part 145 Repair Station with appropriate ratings |

==========

## VI. Flight Conditions and Minimum Equipment List

### 1. Approved Flight Conditions and Required Equipment

| | |
|---|---|
| IFR Operations in IMC. .....: | IFR Operations in IMC are not approved |
| IFR Operations in VMC ..... : | as per IFR/VMC Minimum Equipment List |
| Day-VFR Operations ..... : | as per D-VFR Minimum Equipment List |
| Night-VFR Operations ..... : | as per N-VFR Minimum Equipment List |
| Aerobatics ..... : | not approved |
| Glider Towing ..... : | as per min. Towing Equipment List.<br>Permissible glider MTOW 550kg = 1,210lb<br>in combination with Tonini or Woodcomp Prop.<br>Permissible glider MTOW 720kg = 1,580lb in<br>Combination with Neuform or Sensenich Prop. |

### 2. D-VFR Minimum Equipment List

Engine ROTAX 912 UL-S
Silencer
Airbox
Propeller
Carburettor Heating System
Compass with Compass Card, analogue or digital (integrated into EFIS)
Altimeter, analogue or digital (integrated into EFIS)
Airspeed Indicator, analogue or digital (integrated into EFIS)
Safety Belts
ELT
electrical System including Circuit breakers
Master, Avionics and Engine Kill (Ignition) Switch
Engine Instruments as per section IV

### 3. N-VFR Minimum Equipment List

Engine ROTAX 912 UL-S
Silencer
Airbox
Propeller
Carburettor Heating System
Compass with Compass Card, analogue or digital (integrated into EFIS)
Altimeter, analogue or digital (integrated into EFIS)
Airspeed Indicator, analogue or digital (integrated into EFIS)
Safety Belts
ELT
electrical System including Circuit breakers
Master, Avionics and Engine Kill (Ignition) Switch
Engine Instruments as per section IV
artificial Horizon, analogue or electrical/digital (integrated into EFIS)
Landing Light
Position Lights
Taillight
Anti Collision Light
Instrument Panel Lighting
Communication Radio
Transponder

REMOS AG
Franzfelde 31
D-17309 Pasewalk
G E R M A N Y

Tel.: +49 (0)3973/225519-0
Fax: +49 (0)3973/225519-99
E-Mail: info@remos.com
Internet: www.remos.com

4. IFR/VMC Minimum Equipment List

Engine ROTAX 912 UL-S
Silencer
Airbox
Propeller
Carburettor Heating System
Compass with Compass Card, analogue or digital (integrated into EFIS)
Altimeter, analogue or digital (integrated into EFIS)
Airspeed Indicator, analogue or digital (integrated into EFIS)
Safety Belts
ELT
electrical System including Circuit breakers
Master, Avionics and Engine Kill (Ignition) Switch
Engine Instruments as per section IV
artificial Horizon, analogue or electrical/digital (integrated into EFIS)
Landing Light
Position Lights
Taillight
Anti Collision Light
Instrument Panel Lighting
Navigation radio and DYNON HS-34 or analogue CDI with glideslope
Transponder
Audio Panel GARMIN GMA-340 including marker antenna

5. Minimum Towing Equipment List

Engine ROTAX 912 UL-S
Silencer
Airbox
Propeller
Carburettor Heating System
(?)Compass with Compass Card, analogue or digital (integrated into EFIS)
Altimeter, analogue or digital (integrated into EFIS)
Airspeed Indicator, analogue or digital (integrated into EFIS)
Safety Belts
ELT
electrical System including Circuit breakers
Master, Avionics and Engine Kill (Ignition) Switch
Engine Instruments
TOST tow release clutch type E85
REMOS Mounting Frame for Tow Release Clutch
Yellow Colored Release Handle
Rear View Mirror Placed on Main Spar Carrythrough
Towing Rope 100...200 ft with Ring Connector
Weak Link in Tow Rope of 300dN

6. Operability of Equipment

Without further approval issued by REMOS AG any item of the minimum equipment List applicable for the individual flight must be operational. Any other item of equipment is regarded to be optional and may be inoperational.

==========

## VII. Lifetime Limits

1. Airframe

The airframe is not lifetime limited.
The aircraft is operated on condition.

2. Control Systems

The control systems are not lifetime limited.
The aircraft is operated on condition.

3. Engine

For commercial use the engines with SN lower than 4.427.532 have a TBO of 1,200h or 10 Years, whatever comes first. Engines with SN between 4.427.533 and 6.775.789 have a TBO of 1,500h or 12 years, whatever comes first. Engines with SN 6.775.790 and higher have a TBO of 2,000h or 15 years, whatever comes first. Engines with SN lower than 6.775.790 may be modified according to ROTAX Service Bulletins so that a TBO of 2,000h/15yrs applies. See individual modification standard and engine documentation.

For private use the engine is operated on condition if maintained according to engine manufacturer's maintenance manual.

4. Propeller

Neither for commercial use nor for private use a TBO is defined for the different types of propellers, inspections acc. to manual apply.

5. Safety Belts

The safety belts are not lifetime limited.
The aircraft is operated on condition.

6. Tubes and Hoses

Tubes and hoses on REMOS aircraft are operated on condition. A fixed time interval for replacement is not defined. Nevertheless, the ROTAX maintenance manual claims for replacement every 5 years. The replacement is not mandatory on REMOS aircraft, though recommended.

7. Towing Equipment

For commercial use the release clutch has a TBO of 4 years, or 2,000 take-offs, or 10,000 operations, whatever comes first.

For private use the clutch is operated on condition if maintained according to clutch manufacturer's maintenance manual.

7. misc. Equipment and Subsystems

Misc. equipment and subsystems are not lifetime limited.
The aircraft is operated on condition.

==========

## VIII. Flight Operations and Limitations

### 1. Pilot's Seat

The seat for the pilot in command is on the left. In case the aircraft is equipped with airspeed indicator and altimeter on the right seat, the pilot in command may also be seated in the right. A glass cockpit screen in the right panes fulfils the requirements for flight instrumentation.

### 2. Flight Training

The aircraft is approved to be used for flight training, both private and commercial. National regulations may apply for minimum instrumentation. The aircraft may be used for following training segments:

- ab-initio training with instructor on board
- enroute VFR training with instructor on board
- solo flights of the student with or without instructor on board
- handling of the aircraft including training of unusual attitudes
- emergency training
- night VFR training
- IFR training in VMC
- glider towing
- banner towing

In case the aircraft is used for flight training the instructor seat is on the right and the student seat is on the left.

### 3. Glider Towing

Glider Towing is permitted in case the aircraft is equipped according to the Minimum Towing Equipment List. Towing gliders is permitted in visual meteorological conditions only, operated under day VFR rules.

Permissible glider MTOW 550 kg = 1,210 lb in combination with Tonini or Woodcomp Prop. Permissible glider MTOW 720 kg = 1,580 lb in combination with Neuform or Sensenich Prop.

While towing gliders the aircraft may be operated single seated only. Only in case of training the aircraft may be operated with both seats occupied. In this case the total weight of REMOS GX and the glider to be towed may not exceed 1,100 kg = 2,425 lbs.

### 4. Flying Without Doors

The aircraft is approved to be flown without doors. Either one or two doors may be taken off. A speed limitation of 180 km/h = 100 kts applies in case one or two doors are taken off.

The aircraft may not be used for glider or banner towing with one or two doors removed. The aircraft may be used for flight training with or without doors.

Doors may not be opened in flight.

==========

## IX. Continued Airworthiness

REMOS AG publishes several types of documents on demand:

- Safety Alert
- Service Bulletin
- Notification
- Pilot Operating Handbook
- Maintenance Manual
- Maintenance Checklist
- Annual Condition Inspection Checklist
- Customer Feedback Form

All these documents are published on the website www.remos.com, which is the central means of communication of REMOS AG to its customers. Documents that definitely need to reach the customer and within a short period of time are sent by postal mail.

==========

## X. Approval Note

REMOS AG hereby certifies the content of this Type Certificate Datasheet (TCDS). In some areas this TCDS supersedes the scope and content of the Maintenance Manual. In these cases this TCDS serves as general Letter of Approval and shall therefore be kept as indefinite attachment to the Maintenance Manual of the aircraft.

released on January 20th, 2017

prepared Christian Majunke
REMOS, Design Engineer

checked Paul Foltz
REMOS, Certification Verification Engineer

released Daniel Browne
REMOS, Head of Office of Airworthiness