Civil Aviation Authority United Kingdom



TYPE-CERTIFICATE DATA SHEET

UK.TC.R.00110

for AW189

Type Certificate Holder

Leonardo S.p.A.
Helicopters
Piazza Monte Grappa, 4
00195 Roma
Italy

Model(s): AW189

Issue: 2

Date of issue: 22 December 2025

TCDS No.: UK.TC.R.00110 Date: 22 December 2025

AW-DAW-TP-004

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Note: In this TCDS, references to EU regulations are to those regulations as retained and amended in UK domestic law under the European Union (Withdrawal) Act 2018 and are referenced as "UK Regulation (EU) year/number or UK Regulation (EU) No. number/year"

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Section 1 General

This Type-Certificate Data Sheet (TCDS) is the concise definition of the type-certificated product accepted and or approved by the CAA in the UK for the affected types and models.

This TCDS includes:

- Details of the type design that affect the TCDS that have been approved or accepted by the CAA in the UK from 01 January 2021.
- Details of the type design that affected the TCDS and were approved or accepted by EASA before 01 January 2021 and were incorporated into EASA TCDS EASA.R.510 at Issue 10 dated 08 June 2020, and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.

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Section 2 AW189

i. General

1. Type / Variant / Model

1.1 Type AW189

1.2 Model AW189

1.3 Variant

2. **Airworthiness Category** Large Rotorcraft, Category A and B

3. **Type Certificate Holder** Leonardo S.p.A.

Helicopters

Piazza Monte Grappa, 4

00195 Roma, Italy See Section 3ii.

4. Manufacturer See Note 2.

5. **EASA Type Certification Application**

Date

12 May 2011

6. State of Design Authority **EASA**

7. **EASA Type Certification Date** 7 February 2014

8. **UK CAA Type Validation Application**

Date

Prior to 31 December 2020, application dates for type certification are covered by EASA type certification application dates, as per Para 5 above.

New applications for UK CAA type validation received after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

9. **UK CAA Type Validation Date** Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Para 7 above.

UK CAA type validation dates after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

UK CAA TCDS UK.TC.R.00110 Issue 1 issued 17 June

2024.

ii. **Certification Basis**

1. Reference Date for determining the applicable requirements

For Airworthiness and Environmental Protection: 12 May

for OSD elements: 17 February 2014

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2. Airworthiness Requirements

AW189 with GE CT7-2E1 Engines

CS-29 Amdt. 2, dated 17 November 2008

CS-29 Amdt. 3, dated 11 December 2012 for the following installations and affected areas only (see Note 10):

- Kit Single Rescue Hoist
- Kit Double Rescue Hoist
- Kit Foldable Single Hoist
- Kit Limited Ice Protection System (LIPS)
- Kit Full Ice Protection System (FIPS)

CS-29 Amdt. 5, dated 14 June 2018 for the following installations (see Note 14.):

- Vibration Health Monitoring (CS 29.1465),
- Kit Additional Marking for CS-26,
- Kit CS26 Yellow-Black Marking,
- Kit Emergency Floats and Life raft Systems,
- Kit 3rd Handle for Life raft Activation,
- Kit Life Jackets.

AW189 with Safran Aneto-1K Engines:

CS-29 Amdt. 2, dated 17 November 2008

CS-29 Amdt. 3, dated 11 December 2012 for the following installations and affected areas only (see Note 10):

- Kit Single Rescue Hoist

CS-29 Amdt. 4, dated 30 November 2016, for the Safran Aneto-1K Engine Installation and affected areas.

CS-29 Amdt. 5, dated 14 June 2018 for the following installations (see Note 14.):

- Vibration Health Monitoring (CS 29.1465),
- Kit Additional Marking for CS-26,
- Kit CS26 Yellow-Black Marking,
- Kit Emergency Floats and Life raft Systems,
- Kit 3rd Handle for Life raft Activation,
- Kit Life Jackets.

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3. Special Conditions

AW189 with GE CT7-2E1 Engines

SC B-03 Automatic Search Modes (ASM) certification

SC E-07 Extended Take-Off Power Duration (EP, 30 min AEO)

SC E-09 Loss of Oil from Gearboxes Utilising a Pressurised Lubrication System

SC F-01 'HIRF Protection' in accordance with JAA Interim Policy INT/POL/27&29/1, issue 3, dated 1 October 2003

SC J-01 Essential APU Installation in Large Rotorcraft

SC F-19 For kit Limited Ice Protection System: Special Condition for Limited Icing Clearance

SC F-24 Non-Rechargeable Lithium Battery Installations

SC F-27 Security Protection of Aircraft Systems and Networks

AW189 with Safran Aneto-1K Engines:

SC B-03 Automatic Search Modes (ASM) certification

SC 07/K Extended Take-Off Power Duration (EP, 30 min AEO)

SC E-09 Loss of Oil from Gearboxes Utilising a Pressurised Lubrication System (E-09)

SC J-01 Essential APU Installation in Large Rotorcraft

SC F-24 Non-Rechargeable Lithium Battery Installations

SC F-27 Security Protection on Aircraft Systems and Networks

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

AW189 with GE CT7-2E1 Engines:

ESF B-04Clear Area from IGE Steep profile: 2.5' Rating Application for First and Second Segment Profile and Definition of Vcoss

ESF B-04/K Cat. A Procedures: 2.5' Rating Application for First and Second Segment Profile and Definition of V_{COSS}

ESF B-05 Short Field/Prepared Grass Surface: 2.5' Rating Application for First and Second Segment Profile and Definition of Vcoss

ESF D-03 Passenger access to each Emergency Exit

ESF D-04 Passenger Emergency Exits – other than Side- Of-Fuselage

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Issue: 2 Page 6 of 24 ESF D-06 Emergency Exit Signs

ESF D-07 Ditching Emergency Exits for Passengers

ESF D-08 Ferry Flight Configuration

ESF D-10 Main Aisle Width

ESF D-11 Hoist Installation

ESF E-13 Rotor Drive System and Control Mechanism Tests: Endurance and Additional Tests by

Test Rig

ESF F-16 H-V Envelope and RFM Charts

ESF F-20- Power Index Indicator

ESF G-01 Engine Training Mode

ESF G-02 Airspeed Indicators Green Arcs

ESF G-03 Never Exceed Speed – Power Off

AW189 with Safran Aneto-1K Engines:

ESF B-04/K Cat. A Procedures: 2.5' Rating

Application for First and Second Segment Profile and Definition of Vcoss

ESF D-03 Passenger access to each Emergency Exit

ESF D-04 Passenger Emergency Exits – other than

Side- Of-Fuselage

ESF D-06 Emergency Exit Signs

ESF D-07 Ditching Emergency Exits for Passengers

ESF D-08 Ferry Flight Configuration

ESF D-10 Main Aisle Width ESF D-11 Hoist

Installation ESF E-11/K Ignition Switches

ESF E-13 Rotor Drive System and Control

Mechanism Tests: Endurance and Additional Tests by Test Rig

ESF F-16 H-V Envelope and RFM Charts

ESF F-20/K Power Index Indicator

ESF G-02 Airspeed Indicators Green Arcs

ESF G-03/K Never Exceed Speed - Power Off

7. Environmental Protection Requirements

7.1 Noise Requirements

See TCDSN UK.TC.R.00110

7.2 Emissions Requirements

AW189 with GE CT7-2E1 Engines:

Chapter 2 of ICAO Annex 16 Volume II, Part II to Chicago Convention (as implemented in CS-34 Amdt. 1).

AW189 with Safran Aneto-1K Engines:

Chapter 2 of ICAO Annex 16 Volume II, Part II to Chicago Convention (as implemented in CS-34 Amdt. 2).

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8. Operational Suitability Data (OSD)

8.1 Master Minimum Equipment List JAR-MMEL/MEL Amendment 1, dated 1 August

(MMEL) 2005

8.2 Flight Crew Data (FCD) CS-FCD Initial Issue, dated 31 January 2014

8.3 Simulation Data (SIMD) Reserved

8.4 Maintenance Certifying Reserved

Staff Data (MCSD)

iii. Technical Characteristic and Operating Limitations

1. Type Design Definition Doc. No. 189G0000P002/01 for AW189 with GE CT7-2E1 Engines

Doc. No. 189G0000P002/02 for AW189 with Safran Aneto-1K Engines

2. Description Large twin-engine helicopter, conventional configuration, 5-blade fully

articulated main rotor, 4-blade fully articulated tail rotor, retractable

tricycle landing gear.

3. **Equipment** As per compliance with certification basis and included in Type Design

Definition Document

4. Dimensions

4.1 Fuselage Length: 14.60 m

Width hull: 3.02 m

Height: 4.04 m

4.2 Main Rotor Diameter: 14.60 m

4.3 Tail Rotor Diameter: 2.90 m

5. Engine

5.1 Model General Electric

2 x Model CT7-2E1

or,

Safran Helicopter Engines

2 x Model Aneto-1K

5.2 Type Certificate General Electric CT7-2E1:

FAA TC/TCDS: E8NE

CAA TC/TCDS: EASA IM.E.010 Issue 9

Safran Aneto-1K:

EASA TC/TCDS: EASA.E.009

CAA TC/TCDS: EASA.E.009 Issue 11

5.3 Limitations

5.3.1 Installed Engine Limitations

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General Electric CT7-2E1 with EECU SW up to V5.0:

Rating		Max ITT [°C]	Max NG [% (rpm)]	Max NF [% (rpm)]
AEO	Continuous	942	102.7 (45 907)	104.7 (22 000)
7.20	Take-off 5 min	968	102.7 (45 907)	
OEI	Continuous	968	102.7 (45 907)	104.7 (22 000)
	Take-off 5 min	1 078	105 (46 935)	

General Electric CT7-2E1 with EECU SW V6.0 or later

Rating		Max ITT [°C]	Max NG [% (rpm)]	Max NF [% (rpm)]
AEO	Continuous	957	102.7 (45 907)	104.7 (22 000)
ALO	Take-off 5 min	983	102.7 (45 907)	
OEI	Continuous	983	102.7 (45 907)	104.7 (22 000)
32.	Take-off 5 min	1101	105 (46 935)	

Safran Aneto-1K:

Rating		Max ITT [°C]	Max NG [% (rpm)]	Max NF [% (rpm)]
AEO	Continuous	957	103.6 (37 628)	104.7 (21 987)
7120	Take-off 5 min	983	104.1 (37 807)	104.7 (21 987)
OEI	Continuous	983	104.6 (37 979)	104.7 (21 987)
52.	Take-off 5 min	1 101	106.9 (38 817)	104.7 (21 987)

5.3.2 Transmission Torque Limits

AW189 with GE CT7-2E1 and Core Avionics Phase 3.0 SW Release

Rating		Max Torque [%]	Input speed [rpm]	Input Power [shp]
AEO	Max Continuous	2 x 100	21 420	2 500
ALO	T30 min	2 x 116(*)	21 .20	2 907
OEI	Max Continuous	1 x 135	21 420	1 687
321	T30 min	1 x 164(**)	1-0	2 055

^(*) For airspeeds less than 90 KIAS. For airspeeds greater than 90 KIAS refer to RFM.

^(**) Between 155% and 164% allowed for 30 sec and once per 2.5 min event

AW189 with GE CT7-2E1 and Core Avionics Phase 4.0 SW Release (or later), or AW189 with Safran Aneto-1K

Rating		Max Torque [%]	Input speed [rpm]	Input Power [shp]
AEO	Max Continuous	2 x 100	21 420	2 500
7120	T30 min	2 x 116(*)	0	2 907
OEI	Max Continuous	1 x 142	21 420	1 775
32.	T30 min	1 x 172(**)		2 150

^(*) For airspeeds less than 90 KIAS. For airspeeds greater than 90 KIAS refer to RFM.

^(**) Between 164% and 172% allowed for 30 sec and once per 2.5 min event

6. Fluids (Fuel/Oil/Additives)

6.1 Fuel JET A, JET A1, JP5, JP8, JP8+100, No. 3 Jet Fuel

(for code no. specification and more details refer to accepted/ approved

RFM)

6.2 Oil Transmissions: AeroShell Turbo Oil 555 (DoD-L-85734). No different

specification or brand allowed.

Engine: Ref. to GE Operating Instructions No. GEK112766

for CT7-2E1 Engines

Ref. to Safran Operating Instructions No. X0461K0012 for Aneto-1K Engines

APU: MIL-PRF-23699, MIL-PRF-7808

Hydraulics: MIL-PRF-83282, MIL-PRF-5606 (as alternative)

6.3 Additives MIL-DTL-27686, MIL-DTL-85470, MIL-I-25017, Biobor JF

6.4 Coolant R134a

7. Fluid capacities

7.1 Fuel

AW189 with GE CT7-2E1 Engines and Core Avionics SW Release up to 6.0:	Total usable [litres (kg ^(*))]	Unusable [litres (kg ^(*))]
Two main fuel tanks (LH and RH)	1295 (1036)	24 (19)
Two main fuel tanks (LH and RH) plus Auxiliary Central Tank	1823 (1458)	30 (24)
Two main fuel tanks (LH and RH) plus forward tanks	1533 (1272)	28 (22)
Two main fuel tanks (LH and RH) plus Forward Tanks plus Auxiliary Central Tank	2061 (1649)	34 (27)
Extended Range (see Note 5) Two main fuel tanks (LH and RH) plus under-belly tanks	2569 (2055)	9 (7)

(*) Considering a medium density between different fuels of 0.8 kg/litre

AW189 with GE CT7-2E1 Engines and Core Avionics SW Release 8.0 or later:	Total usable [litres (kg ^(*))]	Unusable [litres (kg ^(*))]
Two main fuel tanks (LH and RH)	1295 (1036)	24 (19)
Two main fuel tanks (LH and RH) plus Auxiliary Central Tank	1823 (1458)	24 (19)
Two main fuel tanks (LH and RH) plus forward tanks	1533 (1272)	24 (19)
Two main fuel tanks (LH and RH) plus Forward Tanks plus Auxiliary Central Tank	2061 (1649)	24 (19)
Extended Range (see Note 5) Two main fuel tanks (LH and RH) plus under-belly tanks	2569 (2055)	9 (7)

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(*) Considering a medium density between different fuels of 0.8 kg/litre

AW189 with Safran Aneto-1K Engines	Total usable [litres (kg ^(*))]	Unusable [litres (kg ^(*))]
Two main fuel tanks (LH and RH)	1310 (1048)	9 (7)
Two main fuel tanks (LH and RH) plus Auxiliary Central Tank	1838 (1470)	9 (7)
Two main fuel tanks (LH and RH) plus forward tanks	1548 (1238)	9 (7)
Two main fuel tanks (LH and RH) plus Forward Tanks plus Auxiliary Central Tank	2076 (1661)	9 (7)

(*) Considering a medium density between different fuels of 0.8 kg/litre

7.2 Oil

	Quantity [litres (kg)]
GE CT7-2E1 Engine (each)	Min 3.6 (3.59) to max 5.5 (5.49)
Safran Aneto-1K Engine (each)	Min 4 (3.99) to max 6.4 (6.39)
Main gearbox (min/max)	min 21.5 (21.46) to max 27 (26.95) (24.5 + 2.5 for oil cooler, oil ducts and filter)
Intermediate gearbox	1.22 (1.22)
Tail gearbox	1.87 (1.87)
Hydraulic (per each Power Control Module)	3.20 (2.72)

7.3 Coolant System Capacity

2.9 kg

8. **Air Speed Limitations**

V_{NE Power On AEO}: 169 KIAS V_{NE Power On OEI}: 139 KIAS VNE Power Off: 120 KIAS

For reduction of the VNE with altitude, OAT and weight, refer to

approved RFM.

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9. **Rotor Speed Limitations**

Power On AEO		
Condition	[rpm]	[%]
Minimum Continuous	284.75	100.0
Maximum Continuous	296.14	104.0
	Power On OEI	
Condition	[rpm]	[%]
Minimum Cautionary	256.28	90.0
Minimum Continuous	284.75	100.0
Maximum Continuous	296.14	104.0
	Power Off	
Condition	[rpm]	[%]
Minimum Continuous	256.28	95.0
Maximum Continuous	313.23	110.0

Refer to approved RFM for additional rotor speed limitations

10. **Maximum Operating Altitude and Temperature**

10.1 Altitude

AW 189 with GE CT7-2E1 Engines:

Maximum operating altitude 10 000 ft PA/DA (whichever occurs first). See Note 12.

Maximum Take-off and Landing altitude 8 000 ft PA/DA (whichever occurs first).

AW189 with Safran Aneto-1K Engines:

Maximum operating altitude 15 000 ft DA.

Maximum Take-off and Landing altitude 14 000 ft DA.

Refer to accepted/approved RFM and applicable supplements for additional altitude limitations.

10.2 Temperature

-40°C to +55°C (ISA+40°C)

For variation of temperature limitations with altitude refer to accepted/approved RFM and applicable supplement

11. **Operating Limitations**

AW189 with GE CT7-2E1 Engines:

- VFR day and night and IFR operations in non-icing conditions.
- Flight in limited icing condition is permitted only when the kit Limited Ice Protection System is installed.
- Flight into known icing condition is permitted only when the kit Full Ice Protection System is installed.

AW189 with Safran Aneto-1K Engines:

- VFR day and night and IFR operations in non-icing conditions.

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12. **Maximum Mass**

GE CT7-2E1:

Take-off and landing: 8 300 kg (see Note 4) Taxi and Towing: 8 350 kg (see Note 4)

Safran Aneto-1K:

Take-off and landing: 8 600 kg Taxi and Towing: 8 650 kg

13. **Centre of Gravity Range**

Refer to accepted/approved RFM

14. **Datum**

Longitudinal: The datum plane (STA 0) is located at 2 830 mm forward to

the front jack point

On the 'Extended Range' configuration (see Note 5) the longitudinal datum line (STA 0) is located at 3 009 mm forward to the front jack point.

Lateral: The datum plane (B.L. 0) is located at ±275 mm inboard of LH/RH front jack points.

15. **Levelling Means**

Plumb line from ceiling reference point to index plate on floor of passenger cabin; digital clinometer.

Minimum Flight Crew 16.

AW189 with GE CT7-2E1 Engines:

One (1) for VFR day and two (2) for VFR night and IFR.

Single pilot VFR night and IFR operations are allowed under conditions and limitations included in the Supplement 3 of the RFM.

For Category A operations, two (2) pilots required if take-off and landing is to be carried out from the left seat.

For NVIS operations, two (2) pilots or one (1) pilot and one (1) crew member required. Both pilot and crew member must be equipped with NVGs (see Note 3).

For operations in limited icing conditions, two (2) pilots required.

AW189 with Safran Aneto-1K Engines:

One (1) for VFR day and one (1) for VFR night and IFR.

For Category A operations, two (2) pilots required if take-off and landing is to be carried out from the left seat.

For NVIS operations, two (2) pilots or one (1) pilot and one (1) crew member required. Both pilot and crew member must be equipped with NVGs (see Note 3).

17. **Maximum Passenger Seating Capacity**

19

18. **Passenger Emergency**

10; 1 for pilot, 1 for co-pilot,

4 on each side of the passenger cabin

19. Maximum Baggage/ Cargo Loads

300 kg located in the baggage/cargo compartment (see Note 9)

20. **Rotor Blade Control** Movement

For rigging information, refer to Maintenance Manual

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21. Auxiliary Power Unit

(APU)

Safran Power Units (former: Microturbo)

1 x Model e-APU60 model 342,

ETSO approval: EASA.210.10045083

22. Life-limited Parts Refer to the Airworthiness Limitation Section (ALS) Chapter 4 of the

Maintenance Manual:

- Doc. No. 89-A-AMPI-00-04-P for AW189 with GE CT7-2E1 Engines, approved on 5 February 2014, or later accepted / approved revision

- Doc. No. 89-E-AMPI-00-04-P for AW189 with Safran Aneto-1K

Engines, approved on 20 05 2020, or later accepted /

approved revision

23. Wheels and Tyres MLG wheel assembly with 24x7.7 tubeless tyres

NLG wheel assembly with 14.5x5.5 tubeless tyres

iv. Operating and Service Instructions

The Operating and Service Instructions listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.R.510 in accordance with Commission Regulation (EU) 748/2012 as amended.

These instructions and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

The Type Certificate Holder should be contacted to verify the applicability of any Operational and Service Instructions within the UK.

1. Flight Manual

Doc. No. 189G0290X002 for AW189 with GE CT7-2E1 Engines, approved 31 January 2014, or later accepted / approved revision.

Doc. No. 189G0290X006 for AW189 with Safran Aneto-1K Engines, approved 08 06 2020, or later accepted / approved revision

2. Maintenance Manual

'AW189 Maintenance Planning Information':

- Doc. No. 89-A-AMPI-00-P (includes Chapter 4 ALS and Chapter 5 with Scheduled Maintenance Requirements) for AW189 Helicopter with GE CT7-2E1 Engines, approved on 5 February 2014, or later accepted / approved revision
- Doc No. 89-E-AMPI-00-P (includes Chapter 4 ALS and Chapter 5 with Scheduled Maintenance Requirements) for AW189 Helicopter with Safran Aneto-1K Engines, approved on 20 May 2020, or later accepted / approved revision

'Maintenance Review Board Report for AW189 Helicopter':

- Doc. No. 189G0000M006

'AW189 Maintenance Publication'

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- Doc. No. 89-A-AMP-00-X

'AW189 Material Data Information'

- Doc. No. 89-A-AMDI-00-X

'AW189 Corrosion Control Publication'

- Doc. No. 89-A-ACCP-00-X

'AW189 Fault Isolation Publication'

- Doc. No. 89-A-AFIP-00-X

'AW189 Wiring Data Publication'

- Doc. No. 89-A-AWDP-00-X

3. Structural Repair Manual

Component Maintenance Manual as applicable

"AW189 Structural Repair Publication" Doc. No. 89-A-ASRP-00-X

"AW189 Component Repair and Overhaul Publication" Doc. No. 89-A-CR&OP-00-X

4. Weight and Balance Manual

Refer to the Section 6 of the RFM and applicable supplements

5. Illustrated Parts Catalogue

"AW189 Illustrated Tool and Equipment Publication" Doc. No. 89-A-ITEP-00-X

"AW189 Illustrated Part Data" Doc. No. 89-A-IPD-00-X

6. Service Letters and Service Bulletins

As published by AgustaWestland, Finmeccanica or Leonardo

7. Required Equipment

The following is mandatory for IFR/VFR night Single Pilot Operations:

- Quick Reference Handbook (QRH):

Doc. No. 189G0290X003, latest issue for AW189 with GE CT7-2E1 Engines, or,

Doc. No. 189G0290X007, latest Issue, for AW189 with Safran Aneto-1K Engines.

- Map/QRH holder p/n 8G2510F00211, or equivalent approved.
- Traffic Advisory System TCAS II (see RFM Supplement 8).

The installation of the following is mandatory for Ditching Operations (see RFM Supplement 6 or 60):

- Life rafts (life rafts p/n 8G2560F00511 have been approved for use.
 The use of other life raft installations must be in accordance with CS/FAR 29 and must be approved)
- Survival type Emergency Locator Transmitter
- Life preservers (the following life preservers installations have been approved: 8G2560F00611, 8G2560F00711, 8G2560F00811. Different life preserver installations must be in accordance with CS/FAR29 and must be approved).
- Helicopter Emergency Exit Lighting System (HEELS) or other approved variant

The installation of the following is mandatory for Night Vision Goggles Operations:

- Aviator's Night Vision Goggles as specified in 189G3360A001 "AW189

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NVG Compatibility Reference Handbook"

- Helmet with NVG mount suitable for NVG Model being used.
- Cockpit/Cabin physical separation device as defined in 189G3360A001 "AW189 NVG Compatibility Reference Handbook".

For AW189 with GE CT7-2E1 Engines, the installation of the Kit Limited Ice Protection System is mandatory for operation in limited icing condition (see relevant RFM Supplements to the relevant aircraft configuration).

For AW189 with GE CT7-2E1 Engines, the installation of Kit Full Ice Protection System is mandatory for operations in known icing condition (see relevant RFM Supplements according to the relevant aircraft configuration)

The aircraft configuration approved for use in limited or full known icing condition is described in the Report 189G3000A001 "AW189 Icing Compatibility Reference Handbook".

Operations in limited icing conditions and operations in known icing conditions are not allowed on AW189 with Safran Aneto-1K Engines.

Refer to approved RFM and related supplements for other approved mandatory and optional equipment.

Refer to Kit Compatibility Handbook 189G0000A002 for incompatibilities and restrictions between optional equipment.

AW189 Software Configuration is managed within the Software Handbook 189G0000X007.

PED-sensitive equipment, which is under the responsibility of the TC Holder and is declared as NON-PED tolerant, or has PED tolerance limitations, is reported in the document 189G9850A005 "PED Compatibility Reference Handbook".

Operational Suitability Data ٧.

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.R.510 in accordance with Commission Regulation (EU) 748/2012 as amended.

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

1. **Master Minimum Equipment List (MMEL)**

The Master Minimum Equipment List has been approved in accordance with the defined Operational Suitability Data certification basis and as documented in the 189G0270Q001 Rev. A dated 12 May 2014, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

2. Flight Crew Data (FCD)

The Flight Crew Data have been approved in accordance with the defined Operational Suitability Data certification basis and as documented in 189G0000N017 Issue B, dated 16 November 2016, EASA approved on 30 November 2018, or later accepted or approved revisions. he Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

3. Simulation Data (SIMD)

- Reserved
- 4. **Maintenance Certifying Staff Data** (MCSD)

Reserved

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vi. Notes

1. Manufacturer's eligible serial numbers:

AW189 with GE CT7-2E1 Engines:

- 49007, and subsequent, except 49024, manufactured by AgustaWestland S.p.A. in Italy
- 89001, and subsequent manufactured by AgustaWestland S.p.A. in Italy (see Note 5 Extended Range Configuration)
- 91001, and subsequent manufactured by AgustaWestland S.p.A. in UK
- 92001 and 92003 manufactured by AgustaWestland Ltd in UK (see Note 5 Extended Range Configuration)
- 92002, 92004, and subsequent manufactured by AgustaWestland S.p.A. in UK (see Note 5)

AW189 with Safran Aneto-1K Engines:

- 93001, and subsequent manufactured by Leonardo S.p.A. in Italy

2. Manufacturers:

AgustaWestland S.p.A.(*)

Italy Plant - Vergiate (VA)

UK Plant - Yeovil (Somerset)

AgustaWestland Ltd (only for s/n 92001 and 92003)

UK Plant - Yeovil (Somerset)

(*) Effective on 1 January 2016, AgustaWestland S.p.A. ownership was transferred to Finmeccanica S.p.A.; Effective on 28 July 2016, Finmeccanica S.p.A. name was changed into Leonardo S.p.A.

3. NVIS Operations:

- AW189 with GE CT7-2E1 Engines:

Night Vision Imaging System Operations are permitted according to RFM 189G0290X002 Supplement No. 14.

- AW189 with Safran Aneto-1K Engines:

Night Vision Imaging System Operations are permitted according to RFM 189G0290X006 Supplement No. 14.

The aircraft configuration involving internal/external emitting/reflecting equipment approved for use with NVG is described in the Report N. 189G3360A001 "AW189 NVG Compatibility Reference Handbook". Subsequent modifications and deviations to the NVG helicopter configuration shall be managed in accordance with document 189G3360E001 "AW189 Helicopter NVG Policy".

4. Maximum mass for AW189 with GE CT7-2E1 Engines:

Installation of Drawing 8G0000F00111, according to RFM 189G0290X002 Supplement 21, permits operations at the following mass:

- Take-off and Landing: 8 600 kg
- Taxi and Towing: 8 650 kg
- 5. Extended Range Configuration for AW189 with GE CT7-2E1 Engines:

According to RFM 189G0290X002 Supplement 22, as per Drawing 8G0000X00831 and Drawing 8G0000X00931.

- 6. deleted
- 7. deleted
- 8. deleted

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9. Maximum Baggage / Cargo Loads:

The installation of the kit Vertical Cargo Net p/n 8G2550F00311 and Cargo Net p/n 8G2550V00131 permits the maximum load in the baggage compartment to be increased to 360 kg.

The installation of the Heavy-Duty Baggage Compartment Kit p/n 8G5010F00411, according to RFM Supplement 46, permits the maximum load in the baggage compartment to be increased to 460 kg.

The installation of the Heavy Duty Baggage Compartment Kit p/n 8G5010F00511, according to RFM Supplement 46, permits maximum load in the baggage compartment of 280 kg.

10. Kit Rescue Hoist, LIPS and FIPS:

- For Rescue Hoist installation on AW189 with GE CT7-2E1 Engines and AW189 with Safran Aneto-1K Engines, CS-29 Amdt. 3, dated 11 December 2012 is applicable for the following requirements:
 - CS 29.571 Fatigue tolerance evaluation of metallic structures,
 - CS 29.573 Damage tolerance and fatigue evaluation of composite rotorcraft structures,
 - Appendix A, A 29.4 Airworthiness Limitation Section.
- For LIPS and FIPS installation on AW189 with GE CT7-2E1 Engines, CS-29 Amdt. 3, dated 11 December 2012 is applicable for the following requirements:
 - CS 29.571 Fatigue tolerance evaluation of metallic structures,
 - CS 29.573 Damage tolerance and fatigue evaluation of composite rotorcraft structures,
 - Appendix A, A 29.4 Airworthiness Limitation Section.

11. deleted

12. Service Ceiling Extension for AW189 with GE CT7-2E1 Engines:

For aircraft equipped with Core Avionics Phase 5.0 SW release (or later) and Altitude Extension Kit P/N 8G0000F00511 the Maximum Operating Altitude is extended to 15,000 ft PA/DA (whichever comes first).

13. Core Avionics SW Releases summary:

- AW189 with GE CT7-2E1 Engines:

- Core Avionics Phase 1.0 SW Release retired from service;
- Core Avionics Phase 2.0 SW Release retired from service;
- Core Avionics Phase 2.1 SW Release retired from service;
- Core Avionics Phase 3.0 SW Release, in service, with GE EECU SW V4.0 only;
- Core Avionics Phase 4.0 SW Release, in service, with GE EECU SW V5.0 only;
- Core Avionics Phase 5.0 SW Release, in service, with GE EECU SW V5.0 only;
- Core Avionics Phase 6.0 SW Release, in service, with GE EECU SW V5.0 only;
- Core Avionics Phase 7.0 SW Release retired from service;
- Core Avionics Phase 8.0 SW Release, in service, with GE EECU SW V6.0 only;
- Core Avionics Phase 9.0 SW Release, in service, with GE EECU SW V6.0 only;
- Core Avionics Phase 9.1 SW Release, in service, with GE EECU SW V6.0 only.

- AW189 with Safran Aneto-1K Engines:

- Core Avionics Phase 7.0 SW Release retired from service;
- Core Avionics Phase 8.0 SW Release, in service, with Safran EECU SW LA11000502 only;
- Core Avionics Phase 9.0 SW Release, in service, with Safran EECU SW LA11000502 only;
- Core Avionics Phase 9.1 SW Release, in service, with Safran EECU SW LA11000601 only.

Refer to LHD AW189 Software Compatibility Handbook 189G0000X007 for subsequent approved SW

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- 14. Kit Additional Markings for CS-26, Kit CS26 Yellow-Black Marking, Kit Emergency Floats and Liferaft Systems, Kit 3rd Handle for Liferaft Activation, Kit Life Jackets:
 - For the above mentioned kits, CS-29 Amdt. 5, dated 14 June 2018, is applicable for the following requirements:
 - CS 29.805 (c) Underwater emergency exits for flight crew
 - CS 29.807 (d) Underwater emergency exits for passengers
 - CS 29.809 (c) Emergency Exit Arrangement
 - CS 29.811 Emergency exit marking
 - CS 29.1415 (b), (c) Ditching equipment
 - CS 29.1541 General
 - CS 29.1555 (d)(2) Control markings
 - CS 29.1561 (a), (c) Safety equipment
 - CS 29.1587 (c) Performance information

Section 3 : Administration

i. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
AEO	All Engines Operative
Amdt.	Amendment
AW	AgustaWestland
B.L.	Butt Line
CAA	Civil Aviation Authority
C.G.	Centre of Gravity
CRI	Certification Review Item
CS	Certification Specification
DA	Density altitude
Doc.	Document
EP	Extended Take-Off Power Duration
FAA	Federal Aviation Administration
GE	General Electric
HIRF	High Intensity Radiated Fields
HP	Horsepower
IFR	Instrument Flight Rules
IMC	Instrument Meteorological Conditions
ISA	International Standard Atmosphere
JAA	Joint Aviation Authorities
LH	Left Hand
MLG	Main Landing Gear
NLG	Nose Landing Gear
No.	Number
NVG	Night Vision Goggle
OAT	Outside Air Temperature
OEB	Operational Evaluation Board
OEI	One Engine Inoperative
OSD	Operational Suitability Data
p/n	Part number
PA	Pressure altitude
PED	Portable Electronic Device
RFM	Rotorcraft Flight Manual
RH	Right Hand
SL	Sea Level
s/n	Serial number
STA	Station
TC	Type Certificate
TCH	Type Certificate Holder
TCAS	Traffic Collision Avoidance System
TCDS	Type Certificate Data Sheet
TCCA	Transport Canada Civil Aviation

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VFR	Visual Flight Rules
Vcoss	Climb Out Safety Speed
VNE	Never Exceed Speed

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ii. Type Certificate Holder Record

Type Certificate Holder and Manufacturer	Period	
AgustaWestland S.p.A Via Giovanni Agusta, 520 21017 Cascina Costa di Samarate (VA), Italy	From 7 February 2014 until 30 July 2014	
AgustaWestland S.p.A Piazza Monte Grappa, 4, 00195 Roma, Italy	from 31 July 2014 until 31 December 2015	
Finmeccanica S.p.A. Helicopter Division, Piazza Monte Grappa, 4, 00195 Roma, Italy	From 1 January 2016 until 14 July 2016	
Leonardo S.p.A. Helicopters, Piazza Monte Grappa, 4, 00195 Roma, Italy	since 15 July 2016	

iii. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	17 Jun 2024	The content of the initial issue of this UK CAA TCDS was taken from EASA TCDS No. EASA.R.510 Issue 10 dated 8 June 2020 which was the current EASA version on 31 December 2020 and therefore the version accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement. Other changes introduced are as follows: - II.3: SC references adapted - III.6: ESF references adapted - III.5.3: SW 6.0 and increased ITT added - III.6.3: Kathon FP 1.5 removed - III.7.1: Fuel Capacity for Core Avionics Phase 7 updated - IV.2: Approval dates added - IV.2: AMPI references corrected - V.: Note 13 added to trace Core Avionics SW versions. Issue 11 modifies data (e.g. fuel quantities) because of Core Avionics Phase 7.0 SW optimisations. Previous Core Avionics releases improved the AW189 operational capabilities without impact to TCDS data.	Issue 1 17 June 2024
2	22 December 2025	Amendments to this document made under UK.ADMIN.00172: Section 1 - II.2: CS-29 Amdt. 5 added and P/Ns removed - II.3: New SC F-27 added - II.6: New ESFs B-04, B-05 and E-13 added - Section II.7 'Requirements elected to comply" removed, following sections renumbered - III.7: Fuel capacities updated - III.11.: P/Ns removed - IV.7: Added Supplement 60 for Ditching Operations and mandatory equipment aligned with RFM - V.: Note 13. updated to indicate Core Avionics SW retired from service and new Core Avionics SW releases. - V.: Note 14. added for CS-29 Amdt. 5 Section Administrative: - I: Acronyms and Abbreviations updated. Minor changes made throughout to bring the TCDS in line with the latest UK CAA standardized wording	Issue 1 17 June 2024

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