Dear MULTIPLEX-Fans,
We wish all of you a happy New Year for 2017. This year we have another great event to look forward to: the MULTIPLEX Airshow. This takes place every two years, and will be celebrated at the Bruchsal airfield over the weekend of 13 / 14 May. But long before that we have to prepare for the annual Nuremberg Toy Fair, where we will be showing some great products. We hope you enjoy your reading.

Have more fun in your Winter flying!

Floats kits - perfect for snow and ice

MULTIPLEX floats kits are wonderful for those hot Summer days by the waterside, but they are also an excellent choice for taking off and landing on snow and ice. Floats are available for most of our ELAPOR models.

SHARK floats set	# 22 4328	33.90 €*
PILATUS PC-6 floats kit	# 73 3060	55.90 €*
TwinStar II floats kit	# 73 3061	59.90 €*
MENTOR type floats kit	# 73 3062	56.90 €*
FunCub / EasyCub floats kit	# 73 3063	42.90 €*
Floats kit, e.g. FunMan	# 73 3069	40.90 €*
FunCub XL type floats set	# 73 3098	58.90 €*

Rendezvous with MULTIPLEX / HiTEC

Nuremberg Toy Fair 2017

As every year we will be presenting our new products for 2017 at the Nuremberg Toy Fair over the period 01 - 06 February. The Toy Fair is the international focal point for all sorts of model goods companies: familiar brands, trendy start-ups, major retail chain purchasers, independent retailers. Together with the many media representatives, all these make the Toy Fair the most important annual event for our industry. Multiplex will be an exhibitor at the Fair. More information is available at: www.spielwarenmesse.de
Please note! Admission to model trade only.

3rd MULTIPLEX Airshow 2017

This spectacular Airshow is dedicated to radio-controlled model aircraft, and includes the world's finest RC pilots, with dusk flying and fireworks on the Saturday - and all with free admission. This is what awaits you at the 2017 MULTIPLEX Airshow over the weekend of 13 / 14 May at the LSV Bruchsal airfield adjacent to the A5 Autobahn between Karlsruhe and Heidelberg. World Champions, European Champions and Regional Champions in model flying will be providing non-stop action over the whole weekend. As well as breathtaking aerobatic schedules there will also be a variety of impressive and unusual scale models on display on the ground and in the air. We're all looking forward to it!

Picture of the month

A Summer picture to help get the blood circulating: when MPX team pilot Manuel Kamitz hangs his PROFI TX 16 transmitter round his neck, you can usually expect some really hot flying.
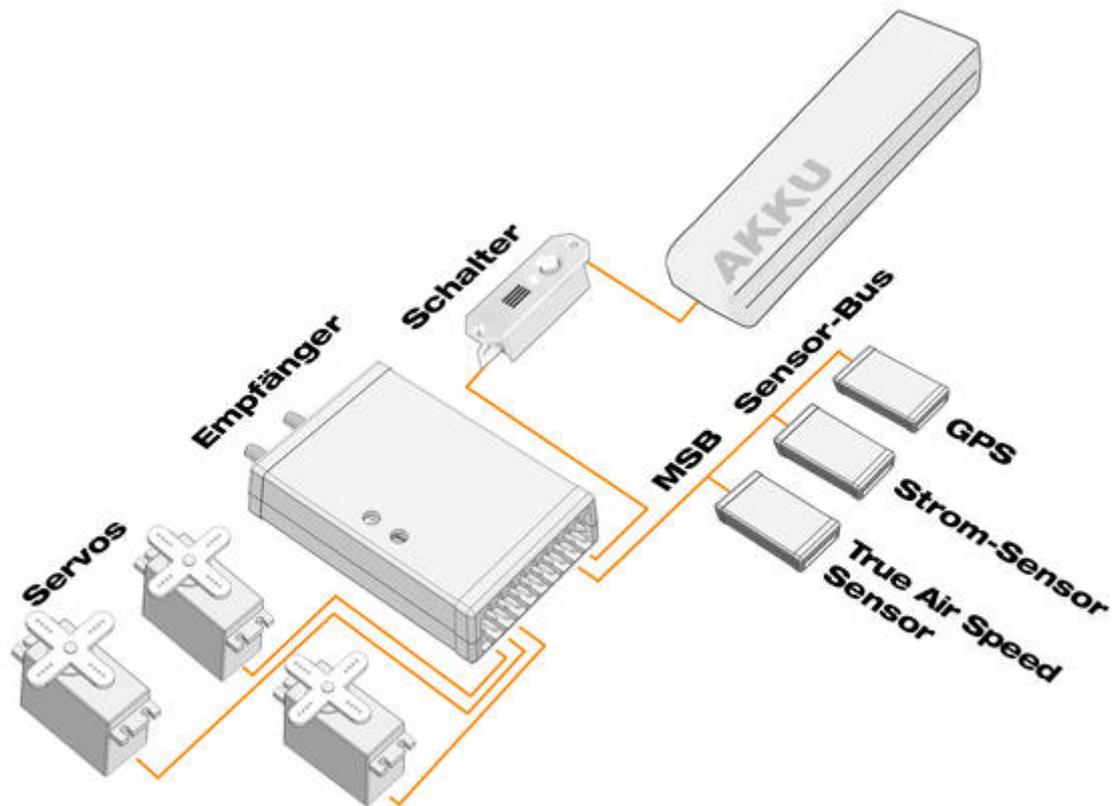Model: YAK 54
Wingspan: 3 m
Weight: 18.4 kg
Receivers: 2 x RX-12-DR pro M-LINK
Transmitter: Profi TX 16 M-LINK
Servos: HiTEC HS-7980TH

Practical tip

Components for gliders ≤ 3m wingspan

7.4 Volt solution for airborne M-LINK equipment

2S LiPo battery > SAFETY SWITCH > M-LINK receiver > HV servo. Run your components - including receivers, sensors and servos - directly from a 7.4 Volt (2S LiPo) battery without voltage reduction. Use a SAFETY SWITCH with integral voltage regulation between receiver and battery for constant, reliable operation. MULTIPLEX also offers SAFETY SWITCH technology (TwinBatt) in the form of a dual power supply with integral battery backer for twice the security.

Conventional servos on 5.5 Volt

You need the SAFETY SWITCH LiPo which generates a stabilised and regulated output voltage of 5.5 Volt.

Receiver: RX-9-DR M-LINK 2,4 GHz
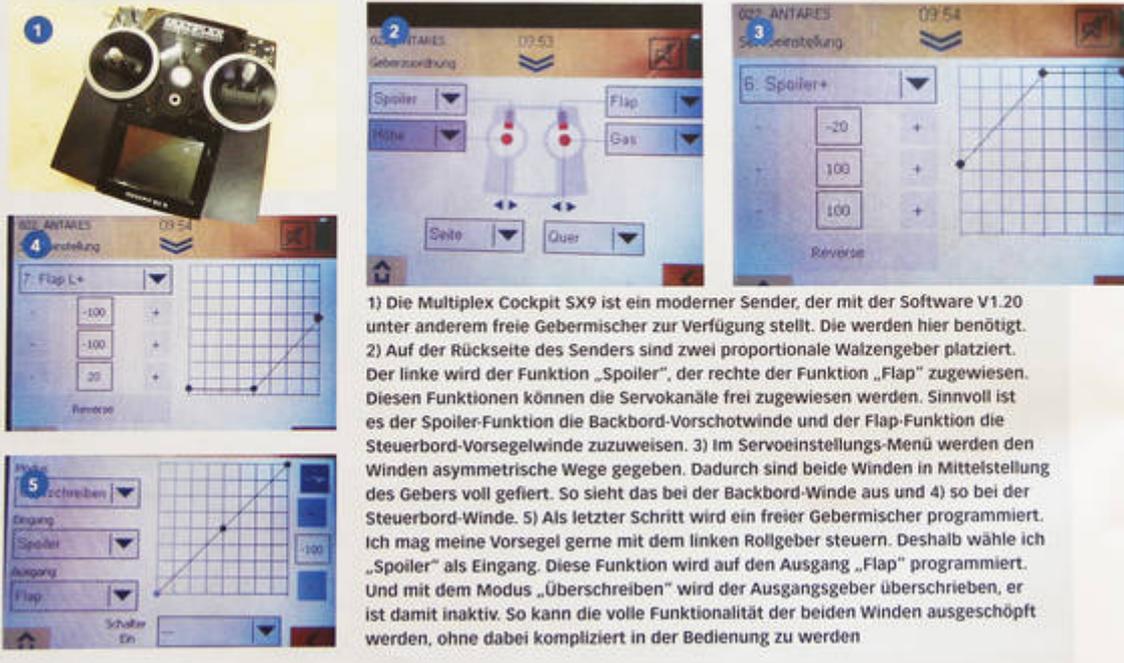Receiver battery: ROXXY EVO LiPo 2/2200 30C with BID-Chip
Switch: SAFETY-SWITCH LiPo
Sensors: Vario/Höhe-Sensor, GPS V2, Strom-Sensor 35A
Servos: HiTEC

Programming foresail winches with the COCKPIT SX 7 / 9

Programmierung

Das Programmieren der Vorsegelwinden ist hier exemplarisch mit der Fernsteuerung Cockpit SX9 von Multiplex dargestellt.

1) Die Multiplex Cockpit SX9 ist ein moderner Sender, der mit der Software V1.20 unter anderem freie Gebermischer zur Verfügung stellt. Die werden hier benötigt. 2) Auf der Rückseite des Senders sind zwei proportionale Walzengeber platziert. Der linke wird der Funktion „Spoiler", der rechte der Funktion „Flap" zugewiesen. Diesen Funktionen können die Servokanäle frei zugewiesen werden. Sinnvoll ist es der Spoiler-Funktion die Backbord-Vorschotwinde und der Flap-Funktion die Steuerbord-Vorsegelwinde zuzuweisen. 3) Im Servoeinstellungs-Menü werden den Winden asymmetrische Wege gegeben. Dadurch sind beide Winden in Mittelstellung des Gebers voll gefiert. So sieht das bei der Backbord-Winde aus und 4) so bei der Steuerbord-Winde. 5) Als letzter Schritt wird ein freier Gebermischer programmiert. Ich mag meine Vorsegel gerne mit dem linken Rollgeber steuern. Deshalb wähle ich „Spoiler" als Eingang. Diese Funktion wird auf den Ausgang „Flap" programmiert. Und mit dem Modus „Überschreiben" wird der Ausgangsgeber überschrieben, er ist damit inaktiv. So kann die volle Funktionalität der beiden Winden ausgeschöpft werden, ohne dabei kompliziert in der Bedienung zu werden

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This article describes the method of programming foresail winches in model boats, using the Cockpit SX9 from MULTIPLEX as an example.

1) The Multiplex Cockpit SX9 is a modern transmitter whose facilities - with software version V1.20 - include free transmitter control mixers, and that is what we need here.
2) The back of the transmitter is fitted with two proportional roller controls. As standard the left-hand roller is assigned to the "Spoiler" function, the right-hand roller to "Flap". Any servo channels - without restriction - can be assigned to these functions, and for our purposes it makes sense to assign the port jib sheet winch to the Spoiler function, and the starboard foresail winch to the Flap function.
3) In the Servo Settings menu the winches are assigned asymmetrical travels, so that both winches are fully slackened at the centre position of the roller. This is how the set-up looks with the port winch, and …
4) with the starboard winch.
5) The final step is to program a free transmitter control mixer. I like to control my foresails using the left-hand roller, so I select "Spoiler" as input, and this function is programmed to the "Flap" output. The output transmitter control is then overwritten, i.e. disabled, using "Overwrite" mode. This arrangement exploits the full functionality of the two winches without adding unnecessary complexity.

MULTIPLEX magazine

The fun way to switch MULTIPLEX transmitters!

We are very grateful to Dietmar Drees, an enthusiastic MULTIPLEX user, who gave us permission to publish the following article:

Switching from the ROYAL pro 9 to the COCKPIT SX 9 simply and safely, including model settings

"Since its initial purchase back in 2012 my Multiplex ROYAL pro has operated with complete reliability, but recently I was shown the new SX 9 at my local model shop, and I was impressed with the functionality, and the new functions included in the new software update. Well, that got me thinking: although the ROYAL's transmitter aerial is quite short, it would still be great to be shot of it, and I was also attracted by the bright, full-colour multi-function screen with swipe and touch functions - like a smartphone - automatic on-screen sensor value arrangement and speech output of the critical electric flight values, including battery voltage and residual capacity, at any time! So it was that my ROYAL pro took a back seat, as the SX 9 transmitter now lay on the bench in front of me. The immediate question is this: how do I quickly and reliably transfer the control surface settings of my favourite models to the new system? A quick phone-call to the Multiplex Service Department elicited the following suggestion establish the servo pulse widths for each channel and each flight phase in the original transmitter, then transfer them to the new SX 9 system. This did require a further hardware investment, but to my mind it quickly paid for itself in two ways: on the one hand through the time-saving - as it virtually eliminates significant trimming or adjustment flights - and on the other hand through increased safety - because I could guarantee that the control surface travels and other settings are virtually exactly the same as with the previously employed ROYAL pro. The investment concerned was for a MULTIMATE, whose facilities include a servo pulse width monitor. The electric hotliner whose settings I wanted to transfer is flown with three flight phases: Launch, Speed and Landing, and this obviously means that the positions for Aileron and Elevator are different in each phase. This is the procedure: switch on the ROYAL pro, and connect the MULTIMATE to the elevator output of another receiver,

which is also bound to the electric hotliner model memory. Why not use the original receiver? Well, unfortunately the servo output sockets of the installed receiver are very difficult to access. Using the second receiver I select Elevator as the first function, and use the MULTIMATE to read out and note down the three values (full-up, neutral = centre, full down) in each flight phase, together with the (reduced) Dual Rate setting.

Now we place the SX 9 on the bench, set up a New Model, bind it to another receiver, and connect the MULTIMATE to the Elevator socket. One highly practical feature is that the familiar keypad of the ROYAL pro, with its eleven buttons in two rows, is duplicated in the SX-9 transmitter menu, in this case with nine input fields. The input procedure is slightly faster. The method of entering values using the ROYAL's arrow buttons (or Enter / pressing the digi-adjuster on a PROFI TX) is superseded on the SX 9 by hovering a finger over the input fields of the touch-sensitive surface, and in this way the values can quickly be updated. The settings for Aileron are also entered in the graphic menu by tapping the screen, or using the stylus."

Four-year-old flies EXTRA 300

Our grateful thanks for the following lovely article, sent in to us by a group of modellers from Traunstein calling themselves the "MULTIPLEX Fan Family".

"Dear MULTIPLEX team,
My name is Luca, I'm four years old, and I'm a great fan of MULTIPLEX. When we drive to the model flying field we always take five aircraft with us: two EasyStar II, one FunCub (my Dad's), one FunMan (my Mum's) and my own EXTRA 300, which is my absolute favourite machine. From when I was very little, model flying has been my great passion (undoubtedly inherited from

Grandad), and in the Summer of 2015 I was given my first model - an EasyStar II - after some initial hesitance on Mummy's part. As I got on quite well with that, I was soon allowed to fly Daddy's FunCub, and in the Autumn I was delighted to be presented with an EXTRA 300. My delight in model flying even had an effect on my Mum, with the result that she took up model flying with her own FunMan and EasyStar II at the age of just on forty years. When not flying, she is always by my side acting as caller; after all, respect and safety must have top priority in our hobby. The quality and flying characteristics of MULTIPLEX models are simply super, which means that the whole family thoroughly enjoys the flying. Keep up the good work! We're already looking forward to new models!
Best wishes
Your flying family: Luca with Ute and Philipp Leitner"

Magazine reviews

EXTRA 330 SC designed by Gernot Bruckmann

"If you are an aerobatic pilot, you really can't ignore the EXTRA 330 SC from MULTIPLEX. Moreover the model fits in any car boot, as it is very quick to dismantle."
RC Revue 12/2016

POWER PEAK D7

"The POWER PEAK D7 is a high-performance battery charger which is just as happy operating at the flying field as it is at home, since it has two power inputs (230 and 12 Volt). No separate mains PSU is required. In either mode the two charge outputs always deliver their 200 Watt charge power. The unit is easy to operate, and it is completely reliable in use."
Aufwind 1/2017

ROXXY SMART Control 45/70/100 MSB

"The Smart Control MSB speed controllers from ROXXY / MULTIPLEX are very well made and extremely versatile. The feature which we particularly appreciate is the programmable BEC facility, as it allows the use of the SBEC even for models equipped with HV servos. The programming procedure is simple and swift using MPX Launcher. The display of telemetry data can be configured individually, and the units are future-proof because the software can be updated. In practical testing the controllers gave an impeccable performance in small, medium-sized and large powered gliders as well as power models. No weak points were apparent."
Modell Aviator 2/2017

ROXXY Smart Control 100 MSB

"With the ROXXY Smart Control 100 MSB MULTIPLEX has developed a helicopter speed controller which is successful in every respect. Thanks to its integral sensors the Smart Control provides very good operational security in conjunction with MULTIPLEX M-LINK telemetry. In our practical testing we found that all features, such as soft-start, governor mode and HV-BEC, worked perfectly."
ROTOR 1/2017

BID SYSTEM

"The BID system addresses safety-conscious modellers who are looking for a simple, reliable method of charging their batteries with the correct settings automatically selected. BID technology makes particular sense, for example, to modellers who need to charge batteries for different models, i.e. when packs vary in cell count, capacity and even battery type, and therefore require many different charge programs. With its intuitive handling the system presented here is also suitable for beginners or modellers returning to the hobby, who might lack experience with today's demanding battery technology. MULTIPLEX advertises the system with the slogan "safe and easy charging", and they are completely justified in that claim."
Modell Aviator 2/2017

With all best wishes
Your MULTIPLEX team